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Statistical Report for the Fiscal Years

1975-1984

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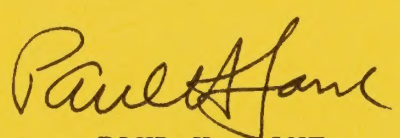
City of Los Angeles DWP Department of Water and Power

F O R E W O R D

This supplemental report of the Los Angeles Department of Water and Power has been printed to furnish statistical data not included in the Annual Report for the fiscal year ending June 30, 1984. Ten-year tables are also provided for convenient comparative reference.



PAUL H. LANE
General Manager and Chief Engineer

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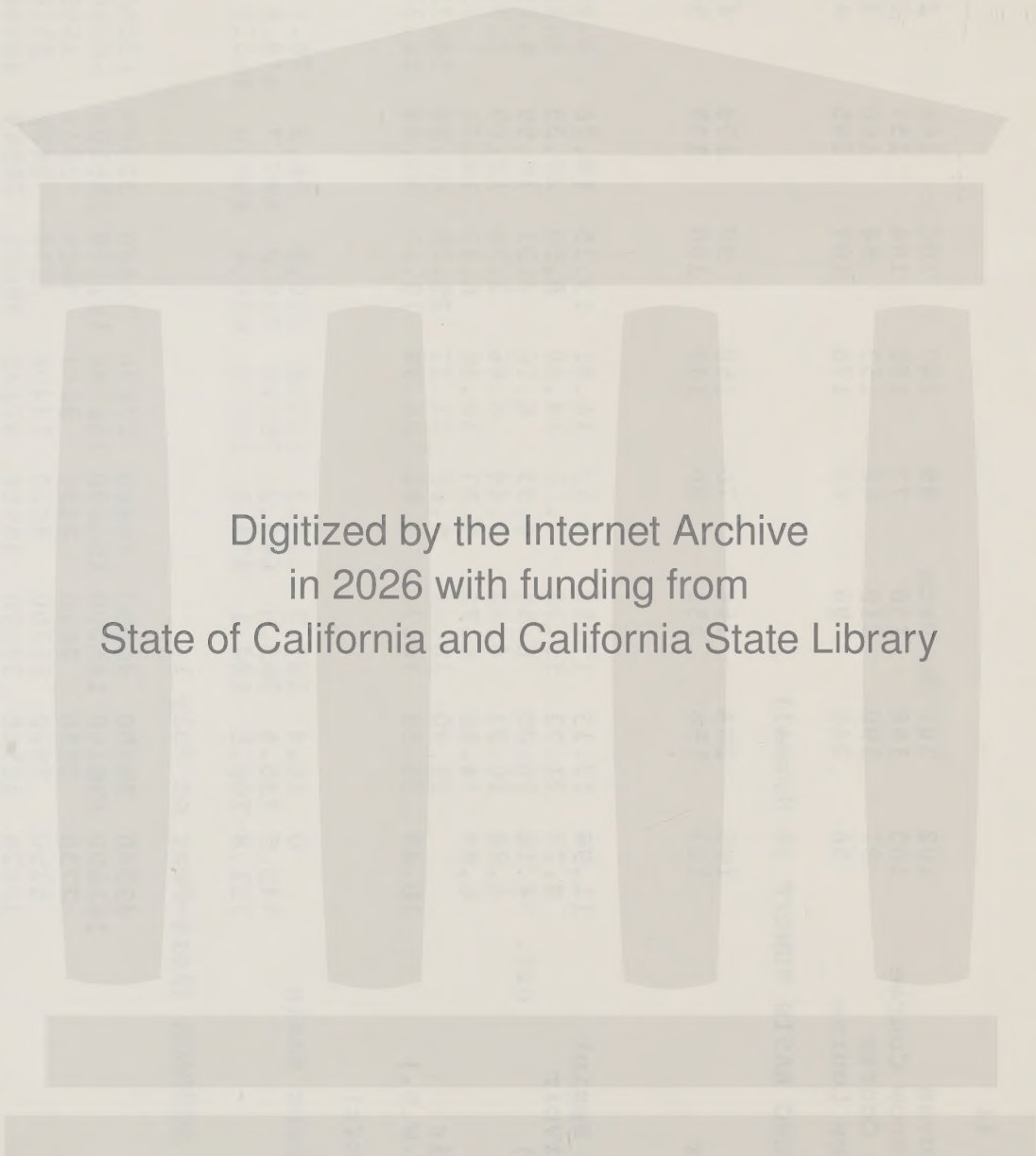
WATER SYSTEM

HYDROLOGIC DATA - LOS ANGELES AQUEDUCT

CITY OF LOS ANGELES - DEPARTMENT OF WATER AND POWER - WATER SYSTEM
For Years Ending June 30*

	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
SIERRA SNOWPACK (% Normal on April 1)										
Gem Lake Snow Course	102	187	No Data	89	147	106	164	23	19	101
Mammoth Pass #1 Snow Course	105	198	138	77	155	104	157	20	44	114
Big Pine #1 Snow Course	97	190	115	68	153	94	160	28	21	86
Cottonwood #1 Snow Course	56	240	96	69	176	107	245	47	30	85
OWENS VALLEY AND MONO BASIN RUNOFF (% Normal)										
April-September	105	204	164	76	160	92	159	42	51	92
October-September	123	196	151	89	148	100	139	54	63	93
RAINFALL (inches)										
Cain Ranch (Mono Basin)	11.98	17.13	17.53	8.13	16.31	13.15	18.76	9.28	6.43	12.75
Long Valley Reservoir	9.27	21.71	15.38	7.11	14.60	8.59	20.35	6.86	5.90	6.99
Bishop (U.S.W.B.) est.	4.16	10.00	6.51	4.99	6.16	3.31	10.98	4.69	3.62	2.76
Independence	4.86	10.21	4.42	3.49	8.66	3.16	12.69	5.11	4.75	3.03
Haiwee Reservoir	6.89	14.86	6.72	5.57	10.30	6.43	18.71	7.22	7.19	6.00
Fairmont Reservoir		25.80	18.68	9.65	21.37	25.25	41.58	16.33	6.66	13.45
Los Angeles (U.S.W.B.)	10.48	33.53	10.71	8.98	26.98	19.67	33.44	12.31	7.22	14.35
MEAN ANNUAL FLOW (cfs)										
At West Portal (Mono Basin	0	18.4	167.5	126.3	143.4	210.9	88.3	78.6	136.6	164.3
Out of Haiwee	743.5	725.4	703.0	666.2	706.4	709.0	507.7	478.4	661.4	647.6
Into City	731.8	706.5	644.1	674.5	682.2	696.6	499.0	460.5	665.1	634.9
AQUEDUCT RESERVOIR STORAGE (Acre-Feet on July 1)										
Grant Lake	42340	35000	40880	40460	27836	35420	32303	12800	20624	39865
Long Valley	161000	130100	156200	150600	146144	161698	109104	60096	105296	166604
Pleasant Valley	2730	2830	2610	2320	3031	3219	3031	3555	3412	3533
Tinemaha	5250	7980	11700	9030	14408	7174	8428	2316	1209	11780
Haiwee	38620	42510	39920	39750	42149	36008	38569	36136	40039	42437
Fairmont	380	420	3510	3380	4213	4148	4083	5154	4716	5308
Bouquet	23970	31050	27830	0	20491	16276	23751	21671	21423	31684
TOTAL	274290	249890	282650	245540	258272	263943	219269	141728	196719	301211

* Unless indicated otherwise



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WATER SUPPLY AND CONSUMPTION FOR YEAR ENDING JUNE 30

FLOWS IN THOUSANDS OF ACRE FEET

Item	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
SUPPLY										
Local Wells										
Upper Basin Los Angeles River	100.5	70.3	92.2	80.1	57.2	49.8	72.0	109.1	97.7	61.2
Sylmar Basin	3.2	3.0	3.7	4.1	2.8	4.0	3.7	3.5	3.0	3.0
Central Basin	12.1	13.5	16.4	9.7	14.4	13.2	14.0	15.8	14.3	15.6
West Coast Basin	0	0	0	1.3	1.4	1.6	3.0	3.8	3.3	2.5
Subtotal Local Wells	115.8	86.8	112.3	95.2	75.8	68.6	92.7	132.2	118.3	82.3
Los Angeles Aqueduct	531.7	511.5	466.3	488.3	495.2	504.3	361.1	333.3	475.7	459.7
Metropolitan Water District	28.6	25.6	34.6	45.7	21.1	18.7	45.9	108.7	25.2	32.5
Gross Supply	676.1	623.9	613.2	629.2	592.1	591.6	499.7	574.2	619.2	574.5
Less										
Release for groundwater storage	26.4	32.1	0	10.6	18.7	37.1	13.1	0	8.4	6.4
To (or from) local surface storage	(2.5)	(2.6)	4.6	1.6	(2.6)	.5	.3	8.5	(1.6)	1.1
Storage Diversions	23.9	29.5	4.6	12.2	16.1	37.6	13.4	8.5	6.8	7.5
Net Supply	652.2	594.4	608.6	617.0	576.0	554.0	486.3	565.7	612.4	567.0
DISTRIBUTION										
Producing Revenue										
Residential	231.8	215.8	250.2	251.5	242.2	236.4	201.1	262.1	280.4	261.7
Commercial and Industrial	306.5	287.6	268.2	267.9	249.3	228.3	203.2	231.0	227.7	222.8
Combined Irrigation and Domestic	0.0	0.0	0.0	0.0	0.0	0.6	0.7	1.0	1.2	1.0
Intermittent Irrigation	2.2	1.5	1.7	2.2	2.8	2.7	2.4	3.2	3.8	3.0
*Power System	1.8	1.4	2.0	3.1	3.6	3.3	2.7	3.3	2.8	3.6
*Other L.A. City Departments	21.8	19.3	21.9	22.7	20.9	19.5	16.9	21.3	26.7	22.6
*Other Governmental	18.1	15.9	16.7	17.3	15.3	14.6	13.0	16.1	16.2	13.6
Other Water Utilities	0.0	0.1	0.1	0.0	0.0	0.0+	0.0+	4.0	.0	0.0
Subtotal Producing Revenue	582.2	541.6	560.8	564.7	534.1	505.4	440.0	542.0	558.8	528.3
Nonrevenue										
Purpose of Enterprise	0.5	0.4	0.7	0.5	0.4	0.4	0.4	0.6	0.9	0.5
Net reservoir evaporation loss	3.3	1.3	2.7	2.5	2.1	2.9	1.6	2.5	2.7	2.0
**Others	66.3	51.1	44.4	49.3	39.4	45.3	44.3	20.6	50.0	36.2
Subtotal Nonrevenue	70.1	52.8	47.8	52.3	41.9	48.6	46.3	23.7	53.6	38.7
Total Distribution	652.3	594.4	608.6	617.0	576.0	554.0	486.3	565.7	612.4	567.0
AVERAGE POPULATION SERVED (Millions)***	3.131	3.064	3.062	2.989	2.980	2.937	2.924	2.861	2.848	2.786
GALLONS PER CAPITA PER DAY										
Net Demand	185.5	173.3	177.4	183	172	168	148	176	191	182
Excluding Intermittent Irrigation	184.8	172.7	176.9	183	171	168	148	175	190	181

NOTES: *These items total to the quantities shown as "Governmental" in statistics relating to water sales.
**Meter discrepancies, reservoir seepage, main leaks and other minor uses and losses.
***Average population served based on State Department of Finance data.

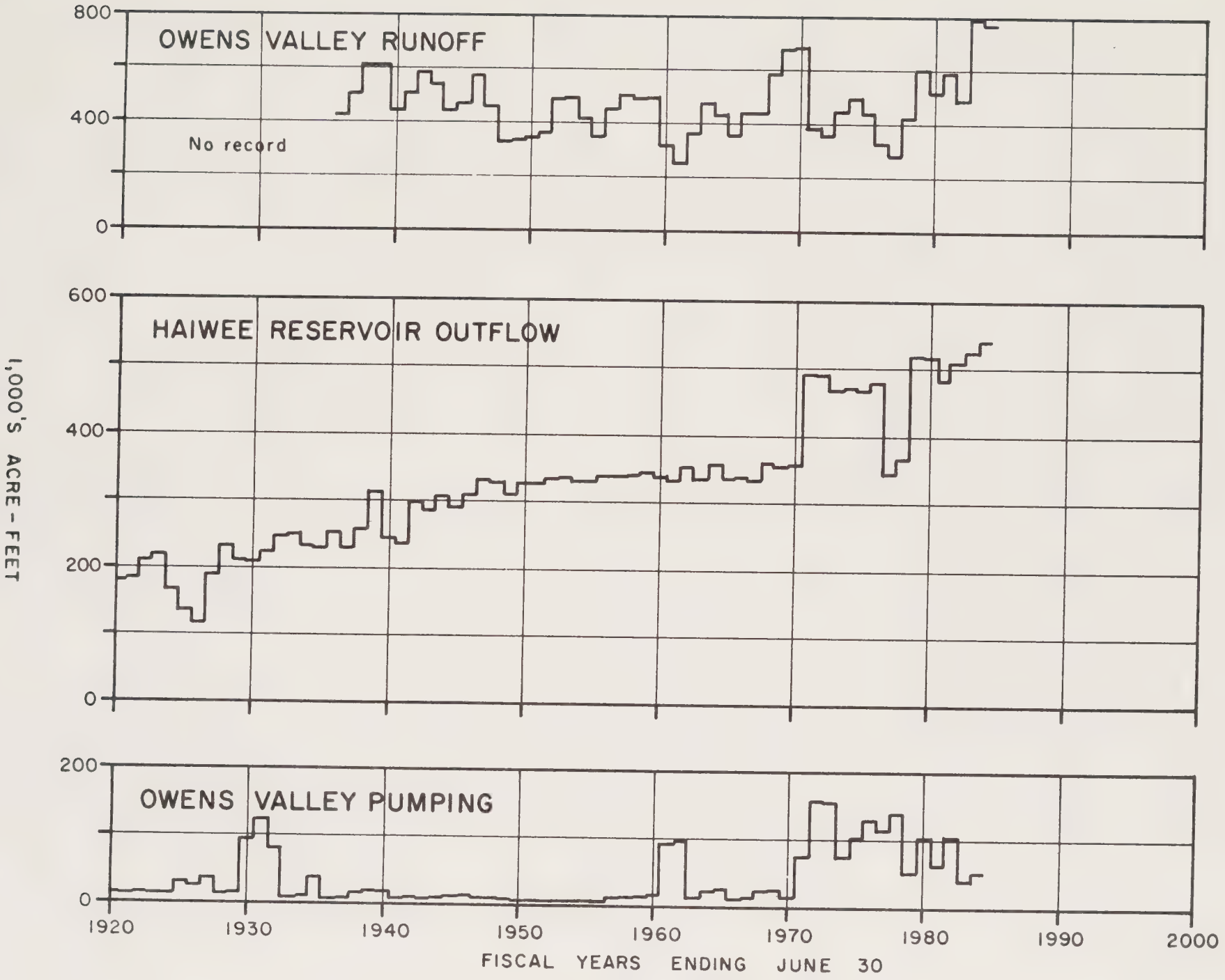
LOS ANGELES WATER MAINS AND SERVICES

City of Los Angeles – Department of Water and Power – Water System

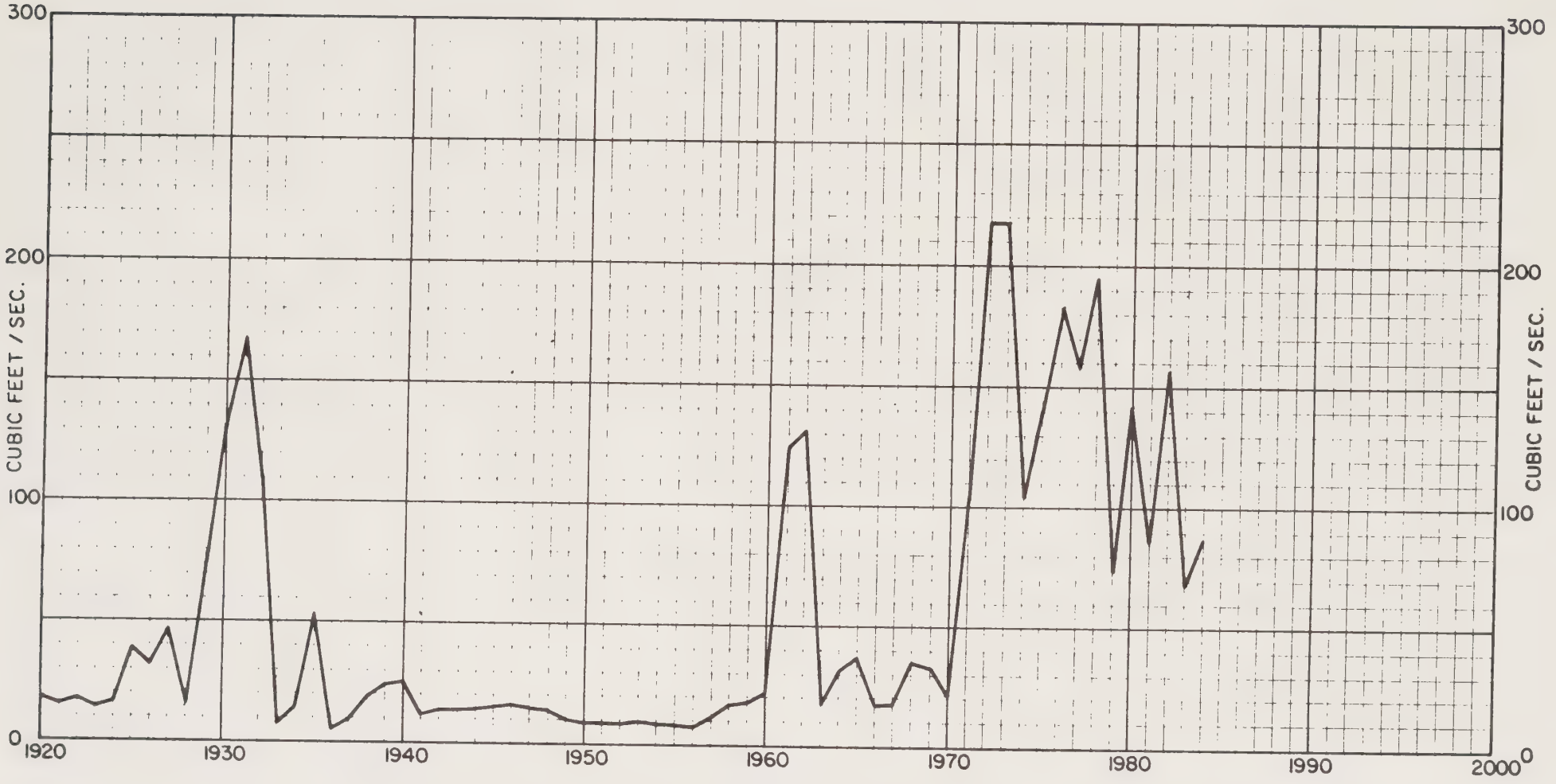
	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
MAINS IN SYSTEM*					Feet of Pipe by Size on June 30					
(Diam.-inches)										
Under 4	264,176	265,545	270,349	277,784	296,867	298,124	301,438	302,357	321,046	320,457
4	4,316,766	4,336,490	4,354,987	4,380,119	4,405,918	4,418,246	4,429,704	4,403,360	4,434,579	4,506,936
6	15,923,809	15,909,780	15,895,787	15,877,472	15,837,756	15,813,151	15,779,054	15,699,978	15,659,834	15,629,397
8	8,997,315	8,977,477	8,949,385	8,921,227	8,861,541	8,812,082	8,788,397	8,725,533	8,680,242	8,615,957
12	3,982,411	3,970,861	3,941,396	3,918,202	3,904,532	3,894,476	3,875,039	3,838,782	3,809,450	3,780,594
16	835,722	824,163	826,643	817,640	815,510	814,342	812,456	812,195	811,826	805,500
20	414,109	414,109	414,106	413,916	407,811	406,454	406,454	404,146	403,861	409,262
24	572,450	573,382	572,493	572,529	572,115	572,016	574,105	565,124	565,111	564,552
30	322,677	322,677	322,209	322,203	322,203	323,876	323,801	323,767	323,168	318,556
36	473,771	473,771	468,575	466,370	466,467	467,282	466,929	466,913	466,654	475,922
48	214,044	213,851	211,912	214,116	214,695	213,081	212,744	212,744	212,744	212,744
60	403,917	402,401	388,934	388,934	388,196	388,395	388,304	388,304	388,320	388,434
78	234,145	233,208	232,772	232,772	232,772	229,173	224,941	224,941	224,919	225,084
99	8,637	8,637	8,637	8,637	7,500	7,385	6,245	6,245	6,245	6,245
120	8,693	8,693	8,693	8,693	8,693	8,693	1,838	1,838	1,838	1,838
TOTAL FEET	36,972,642	36,935,045	36,866,878	36,820,614	36,742,576	36,666,776	36,591,449	36,376,227	36,309,837	36,261,478
TOTAL MILES	7,002.4	6,995.3	6,982.4	6,973.6	6,958.8	6,944.5	6,930.2	6,889.4	6,876.8	6,867.7
					Kind of Pipe in Miles and Percent of Total on June 30					
NON-METALLIC –miles	654.0	652.5	640.1	634.8	622.8	615.1	606.2	592.8	587.5	581.1
–%	9.3	9.3	9.2%	9.1%	9.0%	8.9%	8.8%	8.6%	8.5%	8.5%
STEEL –miles	1,053.1	1,054.4	1,056.6	1,056.5	1,059.5	1,052.7	1,046.6	1,040.8	1,041.4	1,033.7
–%	15.1	15.1	15.1%	15.2%	15.2%	15.2%	15.1%	15.1%	15.2%	15.0%
CAST IRON –miles	5,271.7	5,264.9	5,262.5	5,259.4	5,254.0	5,254.8	5,255.5	5,234.1	5,226.2	5,231.2
–%	75.3	75.3	75.4%	75.4%	75.5%	75.6%	75.8%	76.0%	76.0%	76.2%
COPPER –miles	23.6	23.4	23.2	22.9	22.5	22.1	21.9	21.7	21.7	21.7
–%	0.3	0.3	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%
					Valves, Hydrants and Services on June 30					
VALVES ON MAINS										
Number	101,112	100,827	100,422	100,132	99,659	99,300	98,938	98,416	98,001	97,609
Per mile of main	14.4	14.4	14.4	14.4	14.3	14.3	14.3	14.3	14.2	14.2
Feet of main per valve	365.7	366.3	367.0	367.7	368.7	369.3	369.0	369.6	370.6	371.5
FIRE HYDRANTS										
Number	52,676	52,499	52,110	51,668	51,137	50,666	50,339	49,883	49,486	49,069
Per mile of main	7.5	7.5	7.5	7.4	7.3	7.3	7.3	7.2	7.2	7.1
Feet of main per hydrant	701.9	703.5	707.3	712.6	718.6	723.7	725.2	729.2	734.0	739.0
ACTIVE SERVICES										
Number	639,638	638,698	637,401	650,283	635,435	633,018	630,292	627,155	622,297	619,028
Per mile of main	91.3	91.3	91.3	93.2	91.3	91.2	91.2	91.0	90.5	90.1
Average spacing (feet)	58	58	58	57	58	58	58	58	58	59
NO. OF METERS	639,586	638,644	637,151	649,430	635,153	632,817	630,092	626,975	622,129	618,846

Quantities for nominal diameters 6 inches or greater include minor footages of next smaller intermediate diameter pipe.

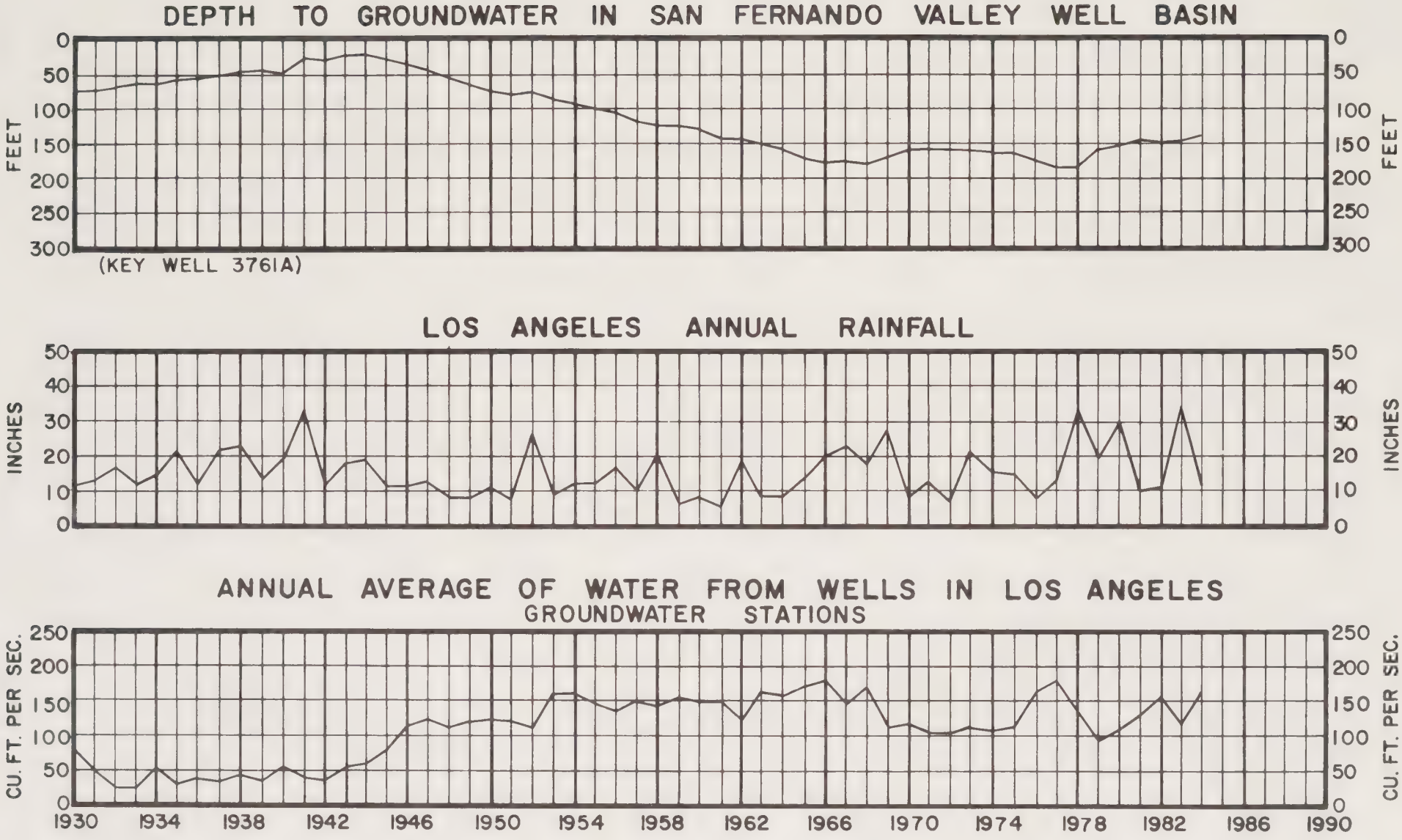
Pipe data under 4-inch diameter added where available.


OWENS VALLEY RUNOFF
800
400
0
No record
HAIWEE RESERVOIR OUTFLOW
600
400
200
0
OWENS VALLEY PUMPING
200
0
1920
1930
1940
1950
1960
1970
1980
1990
2000
FISCAL YEARS ENDING JUNE 30
1,000's ACRE-FEET

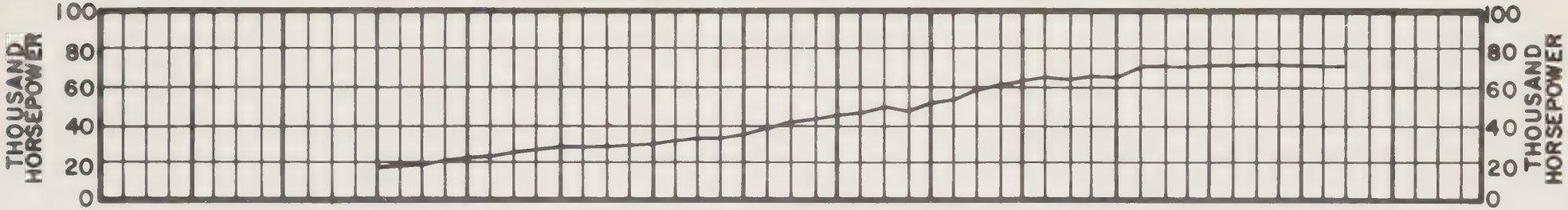
ANNUAL AVERAGE FLOW
OWENS VALLEY DEEP WELLS



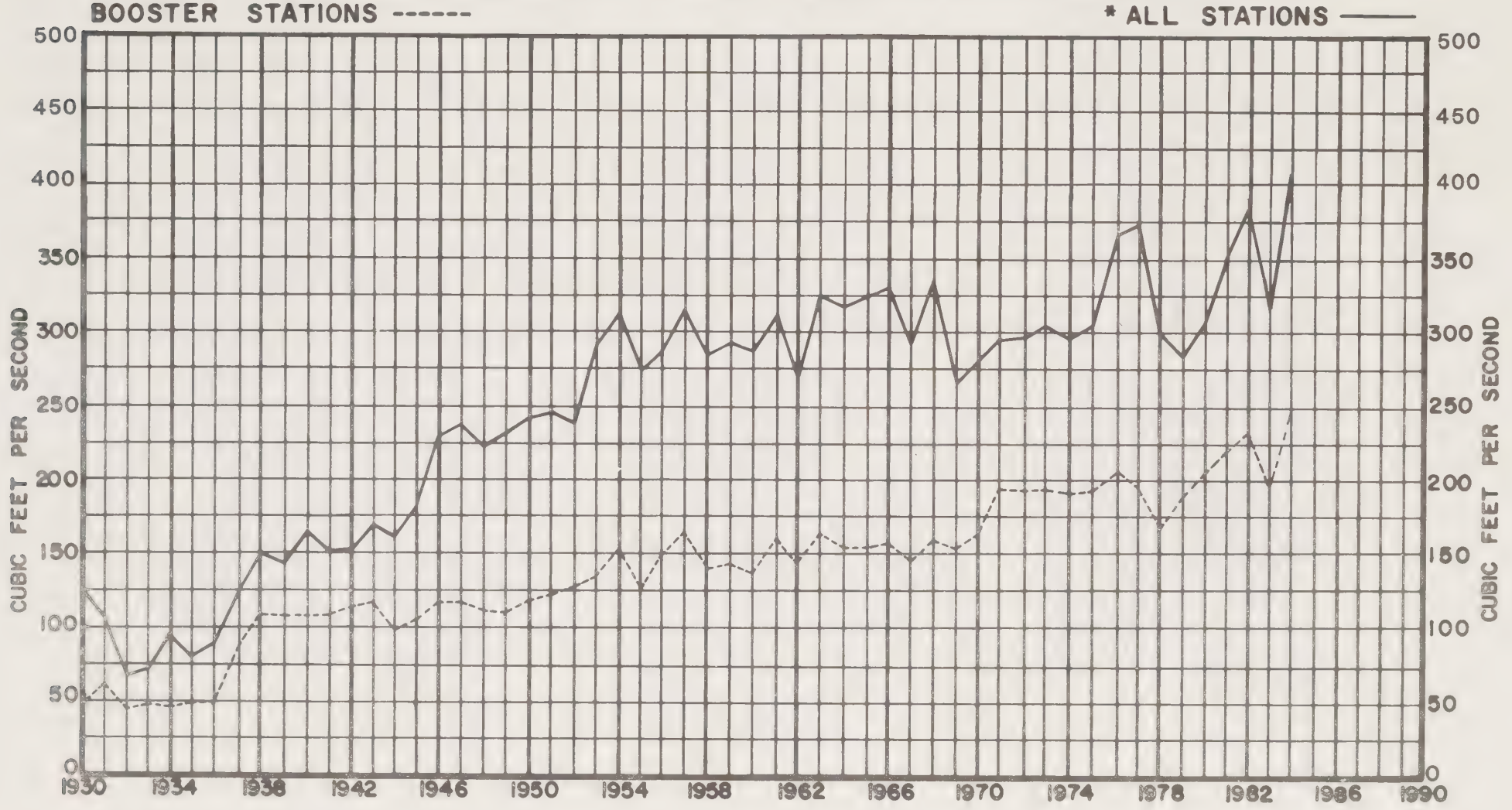
NOTE:
Includes artesian flow


DEPTH TO GROUNDWATER IN SAN FERNANDO VALLEY WELL BASIN
FEET
0
50
100
150
200
250
300
(KEY WELL 3761A)
LOS ANGELES ANNUAL RAINFALL
INCHES
0
10
20
30
40
50
ANNUAL AVERAGE OF WATER FROM WELLS IN LOS ANGELES
GROUNDWATER STATIONS
CU. FT. PER SEC.
0
50
100
150
200
250
1930
1934
1938
1942
1946
1950
1954
1958
1962
1966
1970
1974
1978
1982
1986
1990

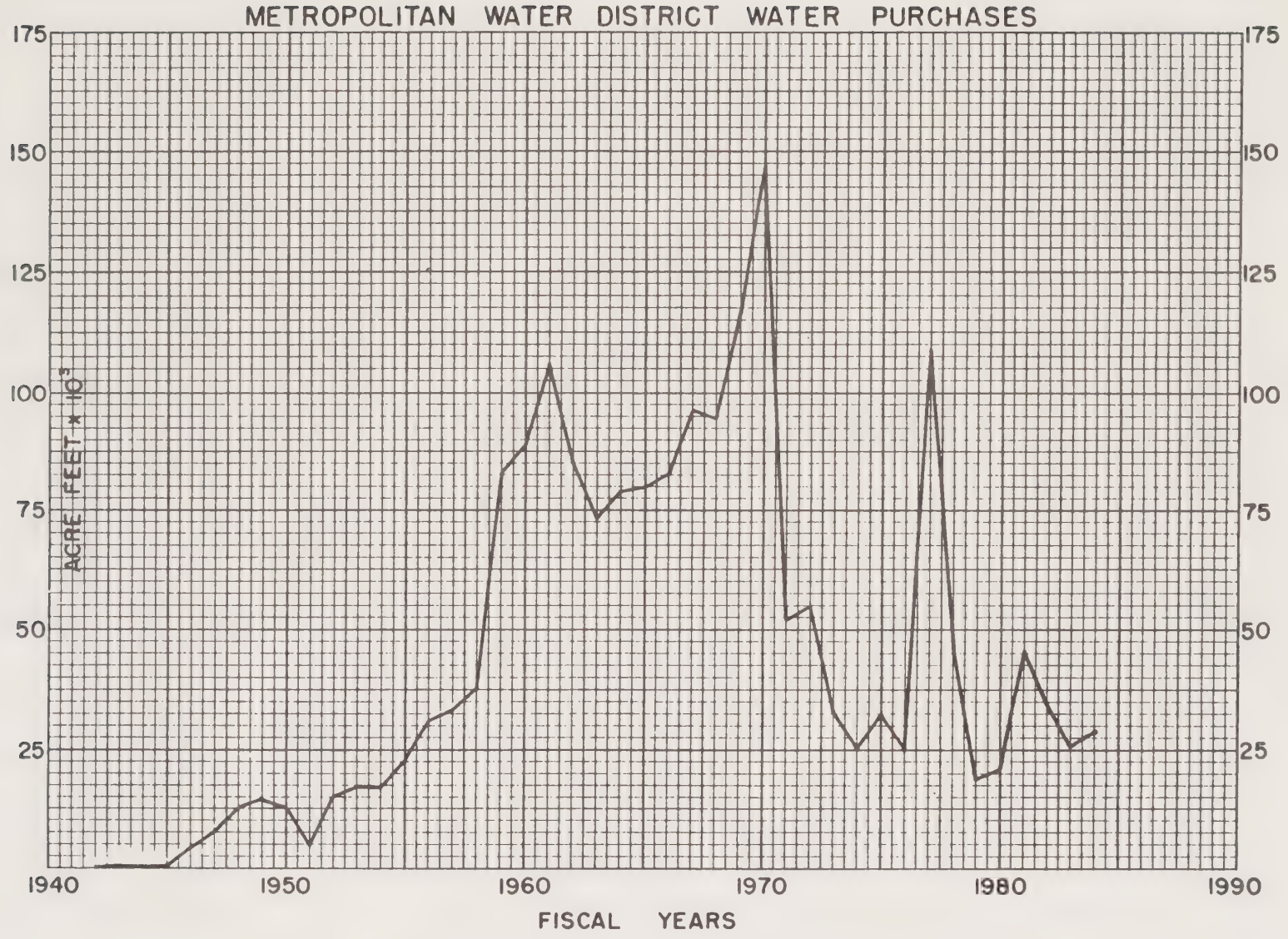
PUMP HORSEPOWER INSTALLED IN LOS ANGELES

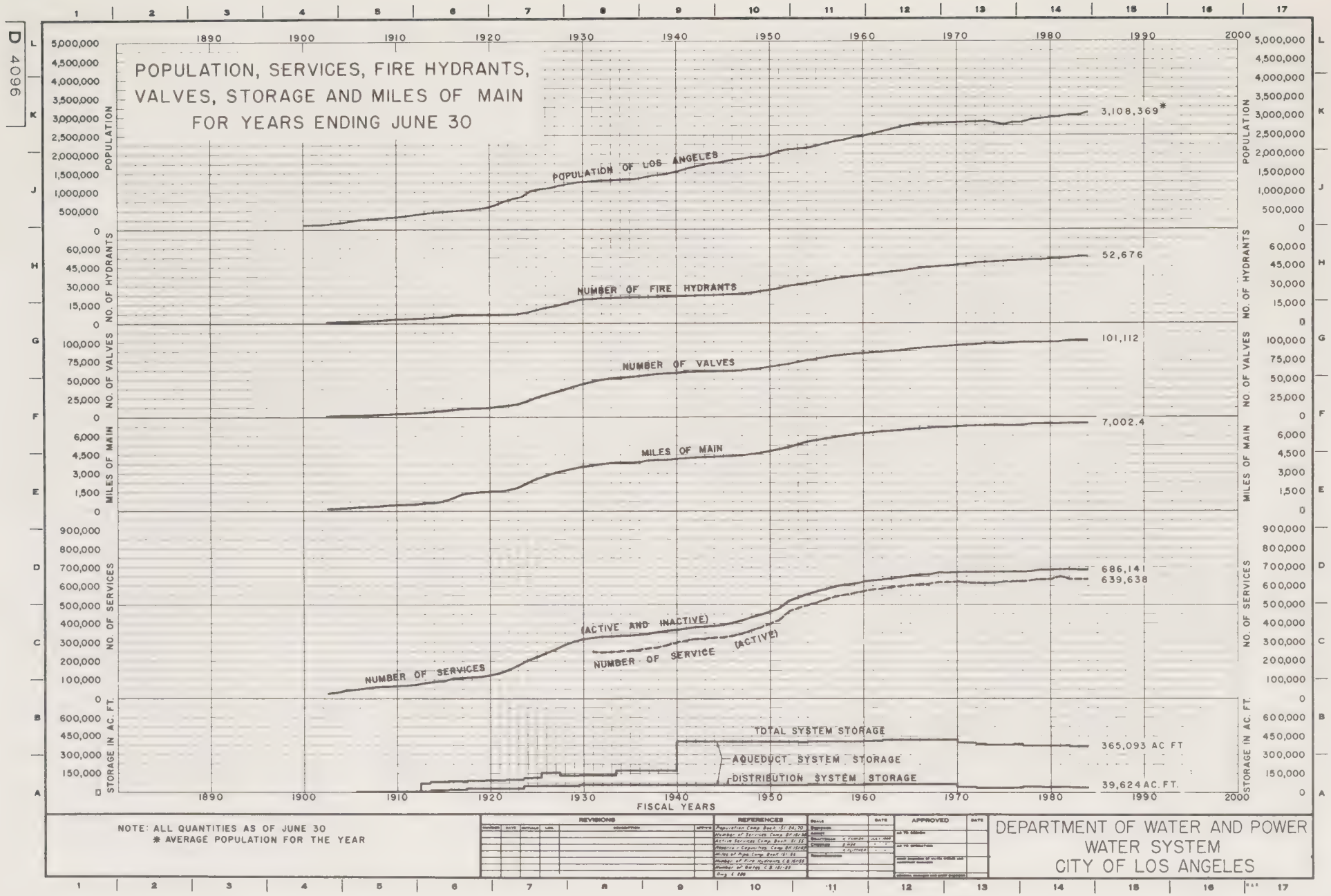


ANNUAL AVERAGE OF PUMPED WATER IN LOS ANGELES



* INCLUDES GROUNDWATER STATIONS

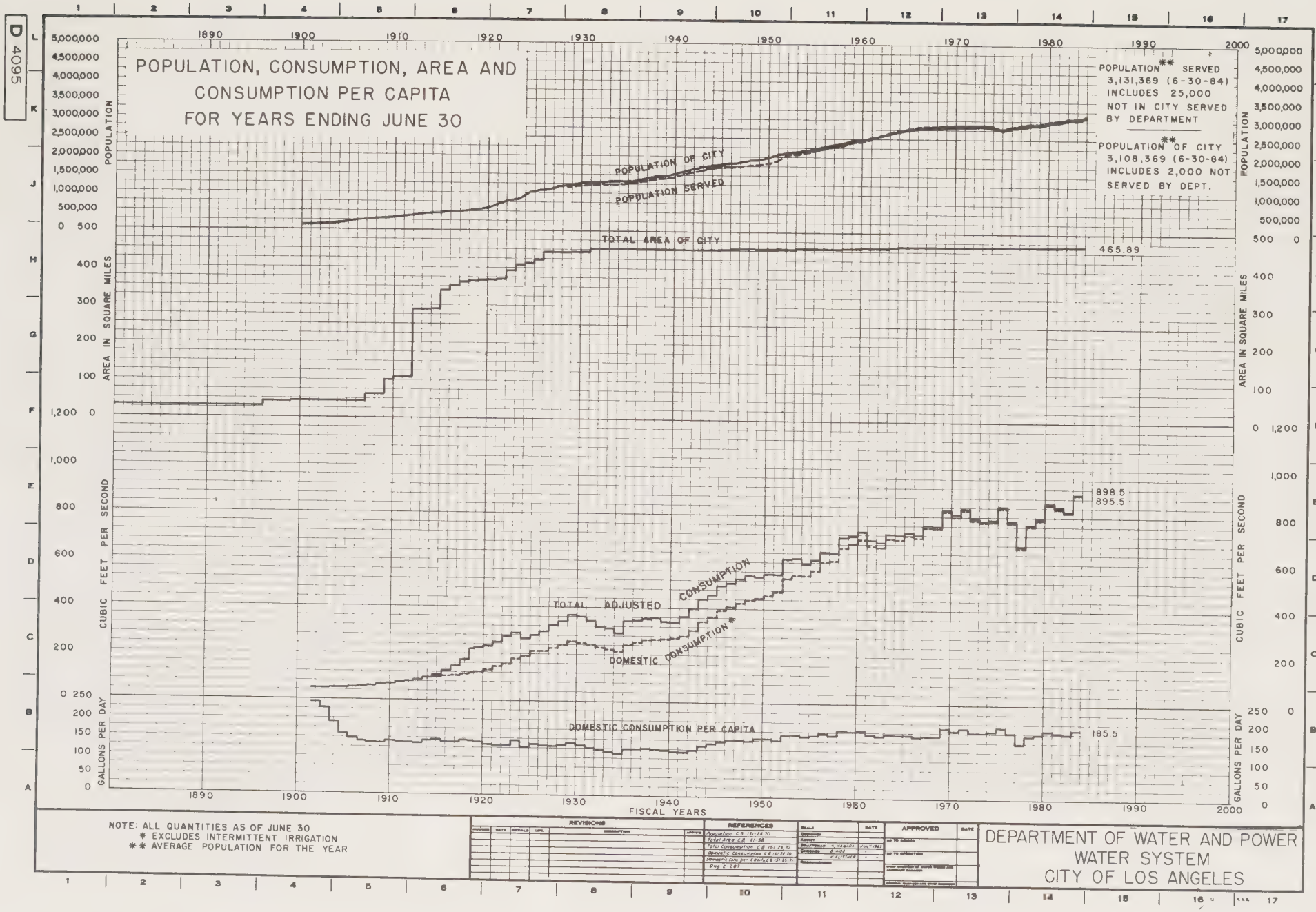

METROPOLITAN WATER DISTRICT WATER PURCHASES
175
150
125
100
75
50
25
ACRE FEET * 10^3
1940
1950
1960
1970
1980
1990
FISCAL YEARS



NOTE: ALL QUANTITIES AS OF JUNE 30
* AVERAGE POPULATION FOR THE YEAR

REVISIONS | REFERENCES | SCALE | DATE | APPROVED | DATE

DEPARTMENT OF WATER AND POWER
WATER SYSTEM
CITY OF LOS ANGELES


D 4095
POPULATION, CONSUMPTION, AREA AND CONSUMPTION PER CAPITA FOR YEARS ENDING JUNE 30
POPULATION** SERVED 3,131,369 (6-30-84) INCLUDES 25,000 NOT IN CITY SERVED BY DEPARTMENT
POPULATION** OF CITY 3,108,369 (6-30-84) INCLUDES 2,000 NOT SERVED BY DEPT.
POPULATION
POPULATION OF CITY
POPULATION SERVED
AREA IN SQUARE MILES
TOTAL AREA OF CITY
465.89
CUBIC FEET PER SECOND
TOTAL ADJUSTED CONSUMPTION
DOMESTIC CONSUMPTION *
898.5
895.5
GALLONS PER DAY
DOMESTIC CONSUMPTION PER CAPITA
185.5
FISCAL YEARS
NOTE: ALL QUANTITIES AS OF JUNE 30
* EXCLUDES INTERMITTENT IRRIGATION
** AVERAGE POPULATION FOR THE YEAR
REVISIONS
REFERENCES
APPROVED
DEPARTMENT OF WATER AND POWER
WATER SYSTEM
CITY OF LOS ANGELES

SUMMARY OF STORAGE FACILITIES
(RESERVOIRS AND TANKS)
CITY OF LOS ANGELES - DEPARTMENT OF WATER AND POWER - WATER SYSTEM
NUMBER AND OPERATING CAPACITY IN ACRE-FEET ON JUNE 30

Description	1984		1983		1982		1981		1980		1979		1978		1977		1976		1975	
	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity
AQUEDUCT AREA																				
Impounding Reservoirs	6	321,988	6	321,988	6	323,211	6	325,949	6	325,949	6	325,949	6	325,949	6	329,821	6	342,902	6	342,902
Flow Regulating Reservoirs	2	3,481	2	3,481	2	6,530	2	6,530	2	8,097	2	8,097	2	8,097	2	9,185	2	9,185	2	9,185
Subtotal	8	325,469	8	325,469	8	329,741	8	332,479	8	334,046	8	334,046	8	334,046	8	339,006	8	352,087	8	352,087
CITY AREA																				
San Fernando Valley Districts																				
Major Storage Facility	11	20,441	11	20,441	11	20,441	11	20,441	11	20,441	12	21,421	12	21,421	11	11,252	11	11,252	11	11,252
Minor Storage Facility	24	61	24	61	23	58	23	58	23	58	24	58	24	58	24	58	24	58	23	58
Subtotal	35	20,502	35	20,502	34	20,499	34	20,499	34	20,499	36	21,479	36	21,479	35	11,310	35	11,310	34	11,310
Central and Western Districts																				
Major Storage Facility	18	18,983	18	19,010	18	18,929	18	18,929	18	18,929	18	18,995	18	18,995	18	18,984	17	17,124	17	17,208
Minor Storage Facility	39	92	38	91	38	91	38	91	38	91	38	91	38	91	38	91	38	91	38	91
Subtotal	57	19,075	56	19,101	56	19,020	56	19,020	56	19,020	56	19,086	56	19,086	56	19,075	55	17,215	55	17,299
Harbor District																				
Major Storage Facility	1	26	1	26	1	26	1	26	1	26	1	26	1	26	1	26	1	26	1	26
Minor Storage Facility	6	21	6	21	6	21	6	21	6	21	6	21	6	21	6	21	6	21	6	21
Subtotal	7	47	7	47	7	47	7	47	7	47	7	47	7	47	7	47	7	47	7	47
Subtotal City Area	99	39,624	98	39,650	97	39,566	97	39,566	97	39,566	99	40,612	99	40,612	98	30,432	97	28,572	96	28,656
Summary																				
Aqueduct Reservoirs	8	325,469	8	325,469	8	329,741	8	332,479	8	334,046	8	334,046	8	334,046	8	339,006	8	352,087	8	352,087
Major City Storage Facility	30	39,450	30	39,477	30	39,396	30	39,396	30	39,396	31	40,442	31	40,442	30	30,262	29	28,402	29	28,486
Minor City Storage Facility	69	174	68	173	67	170	67	170	67	170	68	170	68	170	68	170	68	170	67	170
Total Entire System	107	365,093	106	365,119	105	369,307	105	372,045	105	373,612	107	374,658	107	374,658	106	369,438	105	380,659	104	380,743

NOTE: Major reservoirs over 2.5 million gallons.
Minor storage facilities (primarily tanks) see C-1148-1-4 "Reservoir and Tank Data".

SUMMARY OF SYSTEM PUMPING AND TREATMENT FACILITIES
CITY OF LOS ANGELES - DEPARTMENT OF WATER AND POWER - WATER SYSTEM
FOR YEARS ENDING JUNE 30

AREA AND CLASSIFICATION	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
CENTRAL AND WESTERN										
Pumping Stations	38	38	38	39	39	39	39	38	38	39
Groundwater Stations	5	5	5	5	5	5	5	5	5	5
Wells	15	24	24	24	24	24	24	24	24	24
Miscellaneous Pumping Stations	1	1	1	1	1	1	1	1	1	1
System Disinfection	14	14	14	18	17	18	19	19	22	21
Reservoir Treatment	7	8	7	7	7	7	9	9	9	9
Other Water Treatment	1	1	1	1	3	3	4	4	1	1
SAN FERNANDO VALLEY										
Pumping Stations	38	38	38	38	38	38	40	40	40	40
Groundwater Stations	10	10	10	10	10	10	10	10	10	10
Wells	85	91	91	91	92	91	91	90	91	90
Miscellaneous Pumping Stations	3	3	3	3	3	3	3	3	3	3
System Disinfection	10	11	14	14	16	18	18	18	16	16
Reservoir Treatment	1	1	1	2	1	2	3	3	3	3
Other Water Treatment	1	1	1	1	1	0	1	2	2	1
HARBOR										
Pumping Stations	8	8	8	8	8	8	8	8	8	8
Groundwater Stations	1	1	1	1	1	1	1	1	1	1
Wells	3	3	3	3	3	3	3	3	3	3
System Disinfection	2	2	2	3	3	3	3	3	3	3
Other Water Treatment	1	1	1	1	2	1	1	1	1	1
OWENS VALLEY										
Wells	78	80	80	78	82	82	84	86	84	83
SUMMARY										
Pumping Stations	84	84	84	85	85	85	87	86	86	87
Groundwater Stations	16	16	16	16	16	16	16	16	16	16
Wells	181	198	198	196	201	200	202	203	202	200
Miscellaneous Pumping Stations	4	4	4	4	4	4	4	4	4	4
System Disinfection	26	27	30	35	36	39	40	40	41	40
Reservoir Treatment	8	9	8	9	8	9	12	12	12	12
Other Water Treatment	3	3	3	3	6	4	6	7	4	3

TOTAL ANNUAL WATER SALES *

CITY OF LOS ANGELES - DEPARTMENT OF WATER AND POWER - WATER SYSTEM

AMOUNT FOR YEARS ENDING JUNE 30

CLASS OF CUSTOMER	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
RESIDENTIAL										
Customers	477,850	484,548	492,150	508,511	516,247	520,154	520,190	517,837	515,919	515,558
Units	101,108,685	93,983,813	104,043,152	109,542,889	105,771,588	102,962,413	87,617,245	114,163,087	122,460,017	114,009,775
Revenue	$71,399,134	$60,588,233	$59,847,329	$57,669,575	$55,557,523	$54,678,278	$46,169,755	$48,732,776	$47,995,784	$44,070,982
COMMERCIAL AND INDUSTRIAL										
Customers	147,971	141,763	132,593	115,537	104,988	93,300	86,997	86,549	86,626	89,599
Units	133,793,733	125,295,132	121,783,506	116,732,675	108,910,581	99,516,152	88,591,585	100,585,111	99,490,074	97,058,157
Revenue	$95,097,004	$81,548,775	$66,543,645	$52,295,287	$48,988,714	$45,109,556	$42,458,886	$39,011,692	$34,928,772	$29,798,538
GOVERNMENTAL										
Customers	5,588	5,630	5,621	5,671	5,666	5,572	5,471	5,397	5,266	5,142
Units	18,130,257	15,968,973	17,677,083	18,802,957	17,377,999	16,361,372	14,257,144	19,491,082	20,007,479	17,331,516
Revenue	$10,843,401	$8,938,173	$8,258,303	$7,336,443	$6,825,373	$6,552,112	$5,715,751	$6,198,719	$5,443,135	$4,441,686
INTERMITTENT IRRIGATION AND COMBINED IRRIGATION AND RESIDENTIAL										
Customers	31	28	39	41	35	150	221	251	350	280
Units	921,595	646,730	760,070	979,121	977,553	1,415,631	1,361,479	1,830,913	2,206,695	1,781,449
Revenue	$303,877	$221,670	$229,935	$203,133	$192,429	$322,183	$315,806	$342,038	$352,623	$267,206
ALL CLASSES COMBINED										
Customers	631,440	631,969	630,403	629,760	626,936	619,176	612,879	610,034	608,161	610,579
Units	253,954,270	235,894,648	244,263,811	246,057,642	233,037,721	220,255,568	191,827,453	236,070,193	244,164,265	230,180,897
Revenue	$177,643,416	$151,296,851	$134,879,212	$117,504,438	$111,564,039	$106,662,129	$94,660,198	$94,285,225	$88,720,314	$78,578,412

* Water sales as billed to customers.

NOTE: "Unit" is the billing unit of 100 cubic feet.

AVERAGE MONTHLY WATER SALES PER CUSTOMER *

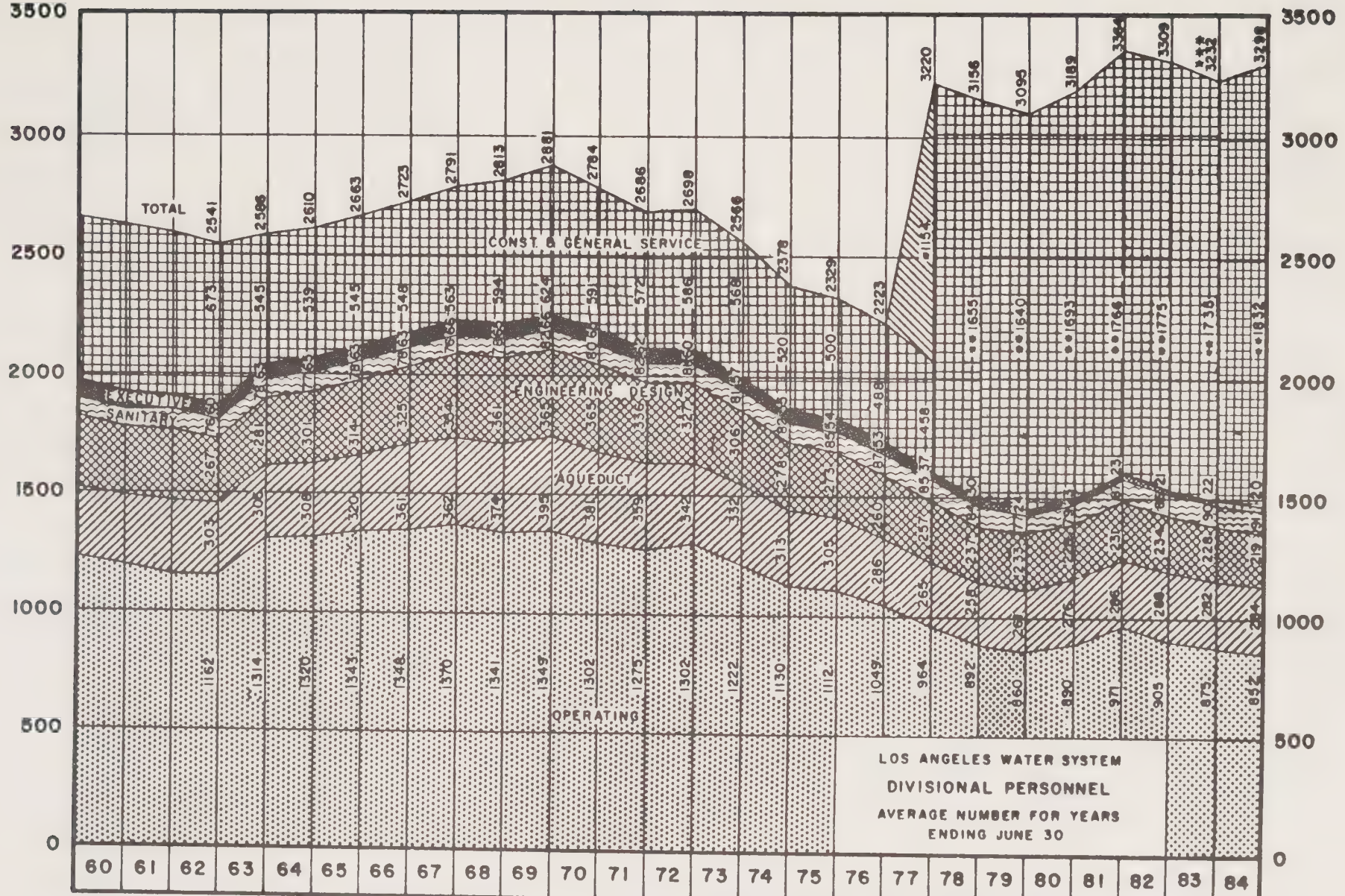
CITY OF LOS ANGELES - DEPARTMENT OF WATER AND POWER - WATER SYSTEM

AVERAGE AMOUNT PER MONTH FOR YEARS ENDING JUNE 30 *

CLASS OF CUSTOMER	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
RESIDENTIAL										
Units Per Customer	17.63	16.2	17.6	17.9	17.1	16.5	14.0	18.4	19.8	18.4
Revenue Per Customer	$ 12.45	$ 10.42	$ 10.13	$ 9.43	$ 8.97	$ 8.76	$ 7.40	$ 7.84	$ 7.75	$ 7.12
Average rate per unit	$ .7062	$ .6447	$ .5752	$ .5264	$ .5253	$ .5309	$ .5270	$ .4269	$ .3919	$ .3866
COMMERCIAL AND INDUSTRIAL										
Units Per Customer	75.35	73.65	76.5	84.1	86.4	88.9	84.9	96.9	95.7	90.3
Revenue Per Customer	$53.56	$ 47.94	$ 41.82	$ 37.72	$ 38.88	$ 40.29	$ 40.67	$ 37.56	$ 33.60	$ 27.71
Average Rate Per Unit	$ .7108	$ .6509	$ .5464	$ .4480	$ .4500	$ .4532	$ .4793	$ .3878	$ .3511	$ .3070
GOVERNMENTAL										
Units Per Customer	270.37	236.4	262.1	276.3	255.6	244.7	217.2	301.0	316.6	280.9
Revenue Per Customer	$161.71	$132.30	$122.43	$107.81	$100.38	$ 97.99	$ 87.06	$ 95.71	$ 86.14	$ 71.98
Average Rate Per Unit	$ .5981	$ .5597	$ .4672	$ .3901	$ .3927	$ .4004	$ .4009	$ .3180	$ .2721	$ .2563
INTERMITTENT IRRIGATION AND COMBINED IRRIGATION AND RESIDENTIAL										
Units Per Customer	2477.4	1924.8	1624.1	1990.1	2327.5	786.5	513.4	607.9	525.4	530.2
Revenue Per Customer	$816.87	$659.73	$491.31	$412.87	$458.16	$178.99	$119.08	$113.56	$ 83.96	$ 79.53
Average Rate Per Unit	$ .3297	$ .3428	$ .3025	$ .2074	$ .1969	$ .2276	$ .2319	$ .1868	$ .1598	$ .1500
ALL CLASSES COMBINED										
Units Per Customer	33.52	31.1	32.3	32.5	31.0	29.6	26.1	32.3	33.5	31.4
Revenue Per Customer	$ 23.44	$ 19.95	$ 17.83	$ 15.55	$ 14.83	$ 14.36	$ 12.87	$ 12.88	$ 12.16	$ 10.74
Average Rate Per Unit	$ .6995	$ .6414	$ .5522	$ .4775	$ .4783	$ .4845	$ .4935	$ .3994	$ .3634	$ .3414

* Based on sales as billed to customers.

NOTE: "Unit" is the billing unit of 100 cubic feet.



*ADDITION OF POWER SYSTEM GENERAL PLANT EMPLOYEES

**NEW GENERAL SERVICES DIVISION

***DOES NOT INCLUDE THE 73 EMPLOYEES OF THE PURCHASING DIVISION; HOWEVER, EFFECTIVE JULY 1, 1983, PURCHASING DIV. WILL BECOME PART OF GENERAL SERVICE DIVISION.

DEPARTMENT OF WATER AND POWER - CITY OF LOS ANGELES

WATER SYSTEM

COMPARATIVE STATISTICS FOR TEN YEARS ENDED JUNE 30, 1984

	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Operating revenues	$ 185,741,707	$ 155,923,480	$139,310,385	$121,924,770	$115,999,000	$111,092,757	$ 98,693,960	$ 97,835,284	$ 92,100,783	$ 81,670,488
Operating expenses (less depreciation)	$ 110,149,578	$ 98,952,567	$101,610,118	$ 84,531,193	$ 72,829,360	$ 66,359,665	$ 68,781,406	$ 63,419,539	$ 59,049,795	$ 54,377,173
Percent of operating revenues	59.3	63.5	72.9	69.3	62.8	59.7	69.7	64.8	64.1	66.6
Depreciation	20,955,815	19,851,123	18,988,104	17,627,918	17,266,030	16,662,871	16,101,291	14,798,745	13,922,799	13,436,431
Percent of operating revenues	11.3	12.7	13.6	14.5	14.9	15.0	16.3	15.1	15.1	16.5
Long-term debt expense	15,870,700	15,391,757	13,054,912	12,972,000	13,540,844	14,032,345	14,426,706	12,315,479	11,686,194	11,061,099
Percent of operating revenues	8.5	9.9	9.4	10.6	11.7	12.6	14.6	12.6	12.7	13.5
Other income and expenses	7,715,006	3,572,365	4,467,359	3,069,362	3,868,776	8,824,242	2,796,513	3,376,849	1,898,775	2,002,427
Nonrecurring credit	11,962,000*	--	--	--	--	--	--	--	--	--
Net income	$ 58,442,620	$ 25,300,398	$ 10,124,610	$ 9,863,021	$ 16,231,542	$ 22,862,118**	$ 2,181,070	$ 10,678,370	$ 9,340,770	$ 4,798,212
Taxes (included in operating expenses)	2,341,654	2,112,916	2,957,371	3,068,240	2,332,077	2,295,826	3,952,279	3,773,015	3,640,487	3,188,362
Percent of operating revenue	1.3	1.4	2.1	2.5	2.0	2.1	4.0	3.9	4.0	3.9
Maintenance (included in operating expenses)	25,919,460	24,583,827	28,283,397	22,675,871	20,744,340	17,534,505	15,709,548	15,661,961	15,307,989	14,128,507
Percent of operating revenues	14.0	15.8	20.3	18.6	17.9	15.8	15.9	16.0	16.6	17.3
Plant in service, excluding land	1,092,764,163	1,050,083,293	993,424,930	952,005,109	910,173,200	879,510,438	851,125,902	828,733,967	755,589,064	733,545,695
Accumulative provision for depreciation	405,716,888	382,399,593	361,499,881	342,640,516	326,614,503	308,873,387	292,712,372	276,887,133	263,648,729	251,484,434
Percent of plant in service	37.1	36.4	36.4	36.0	35.9	35.1	34.4	33.4	34.9	34.3
Net plant in service	687,047,275	$ 667,683,700	$631,925,049	$609,364,593	$583,558,697	$570,637,051	$558,413,530	$551,846,834	$491,940,335	$482,061,261
Land	60,793,680	59,047,145	59,048,145	59,050,541	57,449,601	57,602,596	46,952,219	47,329,049	46,705,921	46,696,382
Construction work in progress	78,717,681	34,309,485	36,756,230	22,200,862	15,506,669	14,123,835	25,643,143	20,176,200	66,145,428	37,192,775
Net utility plant	826,558,636	$ 761,040,330	$727,729,424	$690,615,996	$656,514,967	$642,363,482	$631,008,892	$619,352,083	$604,791,684	$565,950,418
Long-term debt	321,424,702	284,504,336	257,644,142	250,502,335	262,955,311	273,202,919	283,630,527	293,758,135	303,740,742	278,825,928
Percent of net utility plant	38.9	37.4	35.4	36.3	40.1	42.5	44.9	47.4	50.2	49.3
Contributions in aid of construction	265,939,843	250,049,264	238,987,285	226,843,005	215,449,701	204,468,954	189,903,355	171,642,347	136,799,709	129,925,624
Retained income	304,319,731	253,673,111	235,338,713	231,310,103	230,347,082	219,670,540	196,808,422	199,519,352	193,445,982	188,189,212
Payments to reserve fund of the City	7,796,000	6,996,000	6,096,000	5,800,000	5,555,000	--	4,892,000	4,605,000	4,084,000	3,995,000

* Nonrecurring credit related to accounting changes.
** Includes $4,784,000 proceeds from Water Rights Settlement

POWER SYSTEM

GENERATION - NUMBER OF UNITS AND NAMEPLATE CAPACITY

City of Los Angeles - Department of Water and Power - Power System

As of June 30

POWER PLANTS - HYDROELECTRIC	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Number of Units										
Aqueduct	11	10	10	10	12	12	12	12	12	12
Castaic	7	7	7	7	7	7	6	4	3	3
Hoover	6	6	6	6	6	6	6	6	6	6
Owens Gorge	3	3	3	3	3	3	3	3	3	3
Owens Valley System	7	7	7	7	7	7	7	7	7	7
Total	34	33	33	33	35	35	34	32	31	31
Capacity (kw)										
Aqueduct	124,975	99,975	99,975	99,975	118,725	118,725	118,725	118,725	118,725	118,725
Castaic	1,331,000	1,331,000	1,331,000	1,331,000	1,331,000	1,331,000	1,118,500	693,500	481,000	481,000
Hoover	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000
Owens Gorge	112,500	112,500	112,500	112,500	112,500	112,500	112,500	112,500	112,500	112,500
Owens Valley System	14,100	14,100	14,100	14,100	14,100	14,100	14,100	14,100	14,100	14,100
Total	2,077,575	2,052,575	2,052,575	2,052,575	2,071,325	2,071,325	1,858,825	1,433,825	1,221,325	1,221,325
GENERATING STATIONS - OIL & GAS FIRED										
Number of Units										
Harbor	9	9	9	9	9	9	9	9	9	9
Valley	4	4	4	4	4	4	4	4	4	4
Scattergood	3	3	3	3	3	3	3	3	3	3
Haynes	6	6	6	6	6	6	6	6	6	6
Total	22	22	22	22	22	22	22	22	22	22
Capacity (kw)										
Harbor	483,220	483,220	483,220	483,220	483,220	483,220	483,220	483,220	483,220	483,220
Valley	545,600	545,600	545,600	545,600	545,600	545,600	545,600	545,600	545,600	545,600
Scattergood	823,200	823,200	823,200	823,200	823,200	823,200	823,200	823,200	823,200	823,200
Haynes	1,606,000	1,606,000	1,606,000	1,606,000	1,606,000	1,606,000	1,606,000	1,606,000	1,606,000	1,606,000
Total	3,458,020	3,458,020	3,458,020	3,458,020	3,458,020	3,458,020	3,458,020	3,458,020	3,458,020	3,458,020
TOTAL										
Number of Units	56	55	55	55	57	57	56	54	53	53
Capacity (kw)	5,535,595	5,510,595	5,510,595	5,510,595	5,529,345	5,529,345	5,316,845	4,891,845	4,679,345	4,679,345
JOINTLY OWNED GENERATING STATIONS - COAL FIRED										
Number of Units										
Mohave (1)	2	2	2	2	2	2	2	2	2	2
Navajo (2)	3	3	3	3	3	3	3	3	3	2
Coronado (3)	2	2	2	2	1	-	-	-	-	-
Capacity										
Mohave (1)	1,636,000	1,636,000	1,636,000	1,636,000	1,636,000	1,636,000	1,636,000	1,636,000	1,636,000	1,636,000
Navajo (2)	2,250,000	2,250,000	2,250,000	2,250,000	2,250,000	2,250,000	2,250,000	2,250,000	2,250,000	1,500,000
Coronado (3)	700,000	700,000	700,000	700,000	350,000	-	-	-	-	-

(1) Department's ownership is 20%. Operating agent is the Southern California Edison Company.
(2) Department's ownership is 21.2%. Operating agent is the Salt River Project.
(3) Department's ownership is 30%. Operating agent is the Salt River Project.

GENERATION - NET SYSTEM CAPABILITY IN MEGAWATTS

City of Los Angeles - Department of Water and Power - Power System

As of June 30

POWER PLANTS - HYDROELECTRIC	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Aqueduct	77	74	74	74	74	74	74	74	74	74
Hoover	491	511	511	511	511	511	511	511	553	553
Owens Gorge	110	110	110	110	110	110	110	110	110	110
Owens Valley System	9	9	9	9	9	9	9	9	9	9
Castaic	1,247	1,247	1,247	1,247	1,247	1,247	1,099	770	535	535
Total	1,934	1,951	1,951	1,951	1,951	1,951	1,803	1,474	1,281	1,281
GENERATING STATIONS - OIL & GAS FIRED										
Harbor	449	449	473	473	473	473	511	511	515	515
Valley	517	526	519	519	519	519	526	526	533	533
Scattergood (1)	642	642	642	642	642	642	642	642	667	667
Haynes	1,570	1,573	1,573	1,583	1,583	1,583	1,589	1,589	1,589	1,589
Total	3,178	3,190	3,207	3,217	3,217	3,217	3,268	3,268	3,304	3,304
TOTAL										
Capacity	5,112	5,141	5,158	5,168	5,168	5,168	5,071	4,742	4,585	4,585
JOINTLY OWNED GENERATING STATIONS - COAL FIRED										
Mohave	316	316	316	316	316	316	316	316	316	316
Navajo (2)	550	550	550	550	550	550	550	550	550	318
Coronado	210	210	210	210	205 (3)	-	-	-	-	-
Total	1,076	1,076	1,076	1,076	1,071	866	866	866	866	634
FIRM PURCHASES										
BPA	525	525	525	525	525	525	525	525	525	525
Tucson	---	73	-	-	-	-	-	-	-	-
Total	525	598	525	525	525	525	525	525	525	525
FIRM TRANSFER										
State's Capacity Entitlement	(10)	(10)	(10)	(10)	(65.6)	(13)	(40)	(1)	(17)	(125)
TOTAL POWER SYSTEM										
Net System Capacity	6,703	6,805	6,749	6,759	6,698.4	6,546	6,422	6,132	5,959	5,619
SHORT TERM SALES										
Nevada Power Co.	0	0	(180)	(180)	(120)	(100)	(75)	(75)	-	(75)
Pacific Gas & Electric Co.	(200) (5)	(50)	(650) (4)	-	(350)	(300)	-	-	-	-

(1) Unit 3 can burn only natural gas.
(2) Includes 73 mw of Layoff Power from the Department of the Interior for the period from 1976 to July 1, 1985.
(3) Includes 100 mw of Contingent Power.
(4) Delivery for July 1982; August 1982 Delivery is 150 mw.
(5) 200 mw of capacity was committed to PG&E for the month of July 1983 only.

TRANSMISSION AND SUBTRANSMISSION CIRCUITS - CIRCUIT MILES

City of Los Angeles - Department of Water and Power - Power System

As of June 30

TRANSMISSION CIRCUITS	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
DWP OWNED										
Overhead										
500 kv	491.31	491.31	491.31	491.31	407.18	245.43	245.43	245.43	245.43	245.43
287.5 kv	395.15	395.15	395.15	395.15	395.15	373.19	554.05	554.05	532.32	532.32
230 kv	591.54	591.54	591.54	591.54	591.54	591.54	591.54	566.93	586.40	555.45
220 kv -SCE Area	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99
138 kv	93.92	93.92	93.92	93.92	93.92	93.92	93.92	93.94	93.94	93.94
115 kv - Los Angeles	44.32	44.32	44.32	44.34	44.34	44.34	44.34	44.34	44.34	44.34
115 kv - Owens Valley Area	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Total	1,622.73	1,622.73	1,622.73	1,622.75	1,538.62	1,354.91	1,535.77	1,511.18	1,508.92	1,477.97
Underground										
230 kv	40.57	40.57	40.57	40.57	40.57	40.57	37.66	37.66	37.66	35.88
138 kv	65.40	65.40	65.40	65.40	65.40	65.40	65.40	65.40	65.40	65.40
Total	105.97	105.97	105.97	105.97	105.97	105.97	103.06	103.06	103.06	101.28
Total DWP Owned Transmission Circuits	1,728.70	1,728.70	1,728.70	1,728.72	1,644.59	1,460.88	1,638.83	1,614.24	1,611.98	1,579.25
JOINTLY OWNED										
Overhead										
800 kv DC	580.52	580.52	580.52	580.52	580.52	580.52	580.52	580.52	580.52	580.52
500 kv	409.59	409.59	409.59	409.59	409.59	409.59	409.59	409.59	409.59	409.59
Total	990.11	990.11	990.11	990.11	990.11	990.11	990.11	990.11	990.11	990.11
Total Transmission Circuits	2,718.81	2,718.81	2,718.81	2,718.83	2,634.70	2,450.99	2,628.94	2,604.35	2,602.09	2,569.36
Total No. of Transmission Circuits	86	86	86	86	85	83	83	82	82	80
SUBTRANSMISSION CIRCUITS										
Overhead										
34.5 kv - Los Angeles Area	1,133.33	1,130.33	1,129.84	1,127.83	1,127.47	1,127.73	1,124.98	1,131.42	1,138.47	1,151.28
34.5 kv - Owens Valley Area	215.61	215.61	215.61	212.74	212.74	212.74	212.74	208.57	208.57	208.73
16.5 kv - Los Angeles Area	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
13.8 kv - Los Angeles Area	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	4.24
12.0 kv - Owens Valley Area	12.71	12.71	12.71	12.71	12.71	12.71	12.71	12.20	12.20	12.20
Total	1,366.21	1,363.21	1,362.72	1,357.84	1,357.48	1,357.74	1,354.99	1,356.75	1,363.80	1,378.70
Underground										
34.5 kv - Los Angeles Area	780.16	750.60	732.40	715.50	694.60	679.60	665.80	647.50	623.60	604.20
Total Subtransmission Circuits	2,146.37	2,113.81	2,095.12	2,073.34	2,052.08	2,037.34	2,020.79	2,004.25	1,987.40	1,982.90
Total No. of Subtransmission Circuits	429	428	423	423	415	411	408	404	402	397

SUBSTATIONS AND CUSTOMER STATIONS

City of Los Angeles - Department of Water and Power - Power System

As of June 30

			1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
CONVERTER STATIONS												
Number - 800 kv d-c to 230 kv a-c) (Jointly Owned			1	1	1	1	1	1	1	1	1	1
SWITCHING STATIONS												
Number												
500 kv	kv-Attended (Jointly Owned)		2	2	2	2	2	2	2	2	1	1
500/287.5/230*	kv-Attended (Jointly Owned)		1	1	1	1	1	1	1	1	-	-
500/287.5	kv-Attended		1	1	1	1	1	1	1	1	1	1
500/230	kv-Attended (Jointly Owned)		1	1	1	1	1	1	-	-	1	1
230	kv-Unattended		1	1	1	1	1	1	1	1	1	1
230/220	kv-Unattended (Jointly Owned)		1	1	1	1	1	1	1	1	1	1
230/115	kv-Unattended		1	1	1	1	1	1	1	1	1	1
230/34.5	kv-Unattended		1	1	1	1	1	1	1	-	-	-
138	kv-Unattended		1	1	1	1	1	1	1	1	1	1
Total			10	10	10	10	10	10	9	8	7	7
RECEIVING STATIONS												
Number			19	19	19	19	19	19	19	19	19	19
Total Transformer Capacity - kva			7,464,000	7,464,000	7,464,000	6,984,000	6,801,000	7,052,500	6,992,500	7,084,000	6,649,000	6,649,000
DISTRIBUTING STATIONS												
Number												
34.5	kv-Attended		-	-	-	-	-	-	-	-	-	3
34.5	kv-Unattended		173	176	173	171	169	166	165	169	166	157
Total			173	176	173	171	169	166	165	169	166	160
Capacity-kva												
34.5	kv-Attended		-	-	-	-	-	-	-	-	-	120,000
34.5	kv-Unattended		4,381,877	4,338,694	4,252,761	4,230,261	4,202,011	4,159,637	4,103,137	4,048,619	4,024,119	3,814,796
Total			4,381,877	4,338,694	4,252,761	4,230,261	4,202,011	4,159,637	4,103,137	4,048,619	4,024,119	3,934,796
CUSTOMER STATIONS												
Number of Stations												
DWP Owned		34.5 kv	2,050	2,010	1,985	1,938	1,879	1,843	1,822	1,805	1,798	1,768
Transformer, Customer Owned		34.5 kv	7	6	6	4	2	2	2	2	2	2
Customer Owned		34.5 kv	7	7	7	7	7	7	6	6	6	6
DWP Owned		16.5 kv	4	4	4	7	8	8	8	8	8	8
Transformer, Customer Owned		13.8 kv	-	-	-	-	-	-	-	-	-	1
Customer Owned		13.8 kv	3	3	3	3	3	3	3	3	2	2
DWP Owned		4.8 kv & below	661	641	625	603	598	596	591	591	591	593
Total			2,732	2,671	2,630	2,562	2,497	2,459	2,432	2,415	2,407	2,380
Capacity - kva												
DWP Owned		34.5 kv	3,511,852	3,380,393	3,345,560	3,225,836	3,143,662	3,040,205	3,004,063	2,970,562	2,896,853	2,804,882
Transformer, Customer Owned		34.5 kv	227,850	203,850	156,650	129,150	55,150	55,150	55,150	55,150	55,150	55,150
Customer Owned		34.5 kv	29,675	29,675	29,675	29,675	29,675	29,875	26,875	26,875	26,875	26,875
DWP Owned		16.5 kv	2,850	2,850	2,850	2,895	3,645	3,645	3,645	3,645	3,645	3,645
Transformer, Customer Owned		13.8 kv	-	-	-	-	-	-	-	-	-	5,010
Customer Owned		13.8 kv	144,666	144,666	144,666	144,666	144,666	144,666	144,666	144,666	144,666	142,666
DWP Owned		4.8 kv	395,618	377,629	367,217	353,092	349,733	357,918	353,185	352,933	352,403	351,436
Total			4,312,511	4,139,063	4,046,618	3,885,314	3,726,531	3,631,459	3,587,584	3,553,831	3,479,592	3,389,664

* 230 kv added to station in 1983

LOW-VOLTAGE DISTRIBUTION SYSTEM

City of Los Angeles - Department of Water and Power - Power System

As of June 30

LOW-VOLTAGE CIRCUITS	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Number of Primary Feeders (4.8 kv and below)										
Overhead										
Los Angeles Area	1,144	1,143	1,136	1,124	1,110	1,093	1,086	1,086	1,081	1,065
Owens Valley Area	26	26	25	25	25	25	25	23	23	23
Total	1,170	1,169	1,161	1,149	1,135	1,118	1,111	1,109	1,104	1,088
Underground										
Los Angeles Area	317	316	316	306	302	294	290	277	272	280
Total Primary Feeders	1,487	1,485	1,477	1,455	1,437	1,412	1,401	1,386	1,376	1,368
Length of Primary (4.8 kv and below) Feeders - Circuit Miles										
Overhead										
Los Angeles Area	5,813.40	5,801.90	5,779.80	5,764.00	5,749.00	5,732.00	5,709.00	5,715.00	5,720.00	5,762.00
Owens Valley Area	77.72	76.59	76.31	76.11	78.07	77.95	74.92	74.72	74.19	74.19
Total Overhead	5,891.12	5,878.49	5,856.11	5,840.11	5,827.07	5,809.95	5,783.92	5,789.72	5,794.19	5,836.19
Underground										
Los Angeles Area	2,261.98	2,188.70	2,167.10	2,121.10	2,065.90	2,018.70	1,958.00	1,887.40	1,814.90	1,753.80
Total Primary	8,153.10	8,067.19	8,023.21	7,961.21	7,892.97	7,828.65	7,741.92	7,677.12	7,609.09	7,589.99
Length of Secondary Circuits (480,240 & 120v) - Circuit Miles										
Overhead										
Los Angeles Area	3,886.50	3,902.55	3,909.30	3,907.00	3,906.00	3,891.00	3,870.00	3,870.00	3,881.00	3,901.00
Owens Valley Area	112.01	111.44	110.00	111.33	111.82	111.85	110.55	110.37	109.89	109.11
Total Overhead	3,998.51	4,013.99	4,019.30	4,018.33	4,017.82	4,002.85	3,980.55	3,980.37	3,990.89	4,010.11
Underground										
Los Angeles & O.V. Area	885.81	855.40	839.40	824.40	806.10	788.60	747.20	731.60	697.30	674.40
Total Secondary	4,884.32	4,869.39	4,858.70	4,842.73	4,823.92	4,791.45	4,727.75	4,711.97	4,688.19	4,684.51
Total Low-Voltage Circuits - Circuit Miles	13,037.42	12,936.58	12,881.91	12,803.94	12,716.89	12,620.10	12,469.67	12,389.09	12,297.28	12,274.50
Overhead Distribution - Pole Line Miles - L. A. Area	6,080	6,088	6,119	6,116	6,128	6,128	6,129	6,148	6,154	6,175
Underground Distribution - Conduit Miles	2,149.9	2,122.2	2,094.9	2,071	2,019	1,989	1,927	1,906	1,829	1,757
LOW-VOLTAGE TRANSFORMERS (4.8 kv and below)										
Number										
Overhead System	96,772	96,535	96,163	95,742	95,414	94,561	93,769	93,170	92,619	91,769
Underground System	15,272	14,899	14,559	14,044	13,410	12,788	12,164	11,614	11,045	10,645
Total	112,044	111,434	110,722	109,786	108,824	107,349	105,933	104,784	103,664	102,414
Capacity - kva										
Overhead System	3,476,669	3,449,413	3,408,350	3,355,046	3,328,749	3,272,488	3,215,848	3,172,463	3,132,691	3,088,365
Underground System	1,918,169	1,854,195	1,787,785	1,704,682	1,613,136	1,514,944	1,421,795	1,344,509	1,265,099	1,204,522
Total	5,394,838	5,303,608	5,196,135	5,059,728	4,941,885	4,787,432	4,637,643	4,516,972	4,397,790	4,292,887
SERVICE METERS										
Number										
Los Angeles Area	1,285,498	1,273,576	1,264,174	1,254,113	1,235,930	1,221,987	1,205,461	1,188,801	1,178,920	1,173,865
Owens Valley Area	4,250	4,165	4,137	4,146	4,102	3,996	3,920	3,899	3,818	3,839
Total	1,289,748	1,277,741	1,268,311	1,258,259	1,240,032	1,225,983	1,209,381	1,192,700	1,182,738	1,177,704
STREETLIGHTS										
Number										
Utilitarian	24,203	24,422	24,352	24,342	24,617	25,869	25,960	26,494	26,671	27,135
Electrolier	208,596	206,265	203,544	201,442	199,403	195,844	193,114	190,381	183,818	178,126
Total	232,799	230,687	227,896	225,784	224,020	221,713	219,074	216,875	210,489	205,261

POWER PRODUCTION, SOURCES AND DISPOSITION

City of Los Angeles - Department of Water and Power - Power System

For Years Ending June 30

PRODUCTION FOR DWP CUSTOMERS (NET ENERGY FOR LOAD)	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Demand - kw (hourly indicated)	4,444,000[2]	4,456,000	4,364,000	4,343,000	4,083,000	4,144,000	3,778,000	3,744,000	3,809,000	3,500,000
Energy - kwh	21,848,063,714	21,019,326,007	20,691,869,185	20,059,888,233	19,472,553,974	19,543,088,598	18,984,644,888	18,553,185,527	18,328,900,747	17,332,366,415
SOURCES - KWH										
Energy Generated at Hoover Power Plant	3,852,751,540	997,590,797	567,380,932	1,132,383,182	794,658,945	680,908,882	573,728,517	544,050,502	580,981,668	556,841,262
For Boulder City, W.P.R.S., Plant Use and Other Allottees	395,093,460	381,016,203	369,731,768	412,616,818	356,018,055	380,608,118	290,111,483	314,167,498	328,081,332	329,722,738
Total Gross Generation of Los Angeles Units at Hoover Power Plant	4,247,845,000	1,378,607,000	937,112,700	1,545,000,000	1,150,677,000	1,061,517,000	863,840,000	858,218,000	909,063,000	886,564,000
Gross Generation of Castaic Power Plant	1,229,193,000	1,392,300,000	1,048,966,000	400,255,000	317,508,000	442,876,000	384,437,000	246,429,000	541,961,000	362,637,000
Gross Generation of Aqueduct Power Plants	616,239,000	580,814,000	549,862,400	563,633,000	589,648,000	580,454,500	430,556,000	388,490,000	563,022,100	543,559,900
Gross Generation of Owens Valley Power Plants	625,484,800	763,986,400	651,225,600	663,201,400	667,498,400	651,756,000	362,180,600	451,098,800	641,666,000	607,863,300
Total Hydro Generation	2,470,916,800	2,737,100,400	2,250,054,000	1,627,089,400	1,574,654,400	1,675,086,500	1,177,173,600	1,086,017,800	1,746,649,100	1,514,060,200
Gross Generation at Generating Stations	10,280,913,000	11,881,610,000	13,900,213,000	16,835,423,000	17,043,379,000	17,148,936,000	16,883,652,000	16,513,128,000	13,962,894,000	13,421,267,000
Total Gross Generation	16,999,674,800	15,997,317,400	17,087,379,700	20,007,512,400	19,768,710,400	19,885,539,500	18,924,665,600	18,457,363,800	16,618,606,100	15,821,891,200
Purchased Energy - Total, as billed	6,184,148,000	5,986,317,000	4,887,533,000	2,093,925,000	2,189,398,000	531,880,000	943,147,000	1,194,923,862	2,997,985,154	2,707,100,219
Less Energy Purchased from Municipalities and Nevada Power Co. Included in Output of Hoover Power Plant										
Total Generated and Purchased	23,183,822,800	21,983,634,400	21,974,912,700	22,101,437,400	21,958,108,400	20,417,419,500	19,867,812,600	19,652,287,662	19,616,591,254	18,528,991,419
Interchange Energy Received	11,250,139,484	12,183,257,331	11,623,185,082	10,851,662,907	5,413,922,127	6,097,188,620	6,897,076,405	6,248,629,092	6,466,661,000	5,255,599,202
System Total	34,433,962,284	34,166,891,731	33,598,097,782	32,953,100,307	27,372,030,527	26,514,608,120	26,764,889,005	25,900,916,754	26,083,252,254	23,784,590,621
DISPOSITION - KWH										
Total Sales to Ultimate Customers	18,825,432,754	18,053,315,454	18,247,632,179	17,739,819,576	17,689,755,709	17,780,885,344	17,140,084,944	16,813,946,140	16,177,232,245	15,798,351,687
Distribution Losses and Selected Misc. System Uses	950,000,000	1,026,927,754	768,248,090	1,234,713,004	793,745,346	980,533,134	920,615,180	834,920,079	1,012,909,020	440,114,567
Total Distribution	19,775,432,754	19,080,243,208	19,015,880,269	18,974,532,580	18,483,501,055	18,761,418,478	18,060,700,124	17,648,866,219	17,190,141,265	16,238,466,254
Sales to Other Utilities, Delivered to Interconnected Municipalities (1) and to Customers of Other Util & outside plant use	35,000,000	34,705,497	25,386,829	31,308,303	27,976,219	26,420,077	27,450,396	30,948,402	25,866,999	37,876,000
Total Receiving Station output	19,810,432,754	19,114,948,705	19,041,267,098	19,005,840,883	18,511,477,274	18,787,838,555	18,088,150,520	17,679,814,621	17,216,008,264	16,276,342,254
Station Service to All Power Plants (incl. pumping)	2,126,087,696	2,052,751,182	1,503,892,586	909,422,618	889,903,599	1,032,702,646	774,712,874	704,557,494	647,917,972	507,198,989
Energy Delivered to Others Directly from Hoover Power Plant and Motoring	161,820,100	106,679,000	77,881,000	91,948,600	127,514,200	143,509,400	147,520,300	136,571,400	155,569,200	165,771,000
Energy Delivered to Other Utilities at Transmission Voltages	10,273,370,582	10,940,903,698	10,872,117,799	11,848,441,426	6,842,856,704	5,757,076,109	6,800,369,061	6,471,318,679	6,915,461,049	5,739,091,348
Transmission Losses	2,062,251,152	1,951,609,146	2,102,939,299	1,097,446,780	1,000,278,750	793,481,410	954,136,250	908,654,560	1,148,295,769	1,096,187,030
System Total	34,433,962,284	34,166,891,731	33,598,097,782	32,953,100,307	27,372,030,527	26,514,608,120	26,764,889,005	25,900,916,754	26,083,252,254	23,784,590,621

(1) Burbank and Glendale deliveries are considered to be at transmission voltages.
(2) 1984 peak demand is integrated value. Past peak demand report were instantaneous values.

SALES OF ELECTRIC ENERGY*

CITY OF LOS ANGELES - DEPARTMENT OF WATER AND POWER - POWER SYSTEM
FOR YEAR ENDING JUNE 30:

	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
LOS ANGELES CITY AREA										
RESIDENTIAL										
Customers	1,057,660	1,050,073	1,041,507	1,034,736	1,023,959	1,009,869	992,840	974,879	964,212	957,052
Kilowatt-Hours	5,184,118,246	4,947,713,049	5,007,949,526	4,797,245,034	4,841,736,273	4,910,187,527	4,612,413,514	4,556,515,246	4,447,267,846	4,392,779,664
Revenue	$ 312,895,125	$ 305,303,851	$ 326,806,292	$ 312,743,250	$ 288,798,294	$ 249,753,090	$ 222,245,663	$ 189,145,611	$ 171,685,323	$ 152,891,606
COMMERCIAL AND INDUSTRIAL										
Commercial (Inc. Governmental)										
Customers	154,339	152,385	150,281	147,397	143,932	134,905	128,428	126,957	127,354	134,912
Kilowatt-Hours	9,345,807,409	8,759,364,649	8,643,250,888	8,423,508,586	8,263,497,223	8,257,313,996	8,025,357,673	7,932,151,207	7,537,058,722	7,221,049,029
Revenue	$ 544,477,696	$ 530,810,777	$ 555,544,969	$ 518,166,761	$ 419,913,413	$ 350,126,728	$ 322,165,856	$ 267,228,446	$ 231,579,614	$ 197,529,466
Industrial										
Customers	20,872	20,975	21,546	22,117	22,253	20,876	19,481	19,064	17,772	16,715
Kilowatt-Hours	3,869,607,077	3,973,343,957	4,073,834,708	4,009,024,787	4,088,621,537	4,120,047,002	3,968,844,796	3,846,689,323	3,697,877,888	3,719,192,867
Revenue	$ 209,005,519	$ 224,762,191	$ 246,371,670	$ 232,204,216	$ 188,071,841	$ 151,588,520	$ 136,655,531	$ 109,182,495	$ 96,156,959	$ 80,006,145
Total Commercial & Industrial										
Customers	175,211	173,360	171,827	169,514	166,185	155,781	147,909	146,021	145,126	151,627
Kilowatt-Hours	13,215,414,486	12,732,708,606	12,717,085,596	12,432,533,373	12,352,118,760	12,377,360,998	11,994,202,469	11,778,840,530	11,234,936,610	10,940,241,896
Revenue	$ 753,483,215	$ 755,572,968	$ 801,916,639	$ 750,370,977	$ 607,985,254	$ 501,715,248	$ 458,821,387	$ 376,410,941	$ 327,736,573	$ 277,535,611
PUBLIC STREET & HIGHWAY LIGHTING										
Kilowatt-Hours	336,491,545	342,610,699	349,095,606	347,372,998	342,447,531	343,158,788	343,704,691	335,450,876	322,645,587	316,249,928
Revenue	$ 21,050,792	$ 21,779,579	$ 23,419,186	$ 23,653,658	$ 21,968,546	$ 20,099,690	$ 20,262,223	$ 17,269,930	$ 15,686,074	$ 13,484,079
SALES TO WATER SYSTEM										
Kilowatt-Hours	108,187,315	96,540,224	117,436,930	101,412,729	94,049,861	89,441,671	96,818,784	118,547,624	113,837,507	92,484,293
Revenue	$ 5,913,087	$ 5,699,615	$ 7,271,894	$ 5,935,257	$ 4,439,419	$ 3,458,592	$ 3,554,886	$ 3,364,935	$ 2,850,967	$ 2,152,597
TOTAL SALES TO ULTIMATE CUSTOMERS										
Customers	1,238,743	1,229,380	1,217,813	1,210,340	1,195,967	1,171,333	1,146,301	1,126,373	1,114,729	1,113,935
Kilowatt-Hours	18,844,211,592	18,119,572,578	18,191,567,658	17,678,564,134	17,630,352,425	17,720,148,984	17,047,139,458	16,789,354,276	16,118,687,550	15,741,755,781
Revenue	$1,093,342,219	$1,088,356,013	$1,159,414,011	$1,092,703,142	$ 923,191,513	$ 775,026,620	$ 704,884,159	$ 586,191,417	$ 517,958,937	$ 446,063,893
INYO-MONO AREA										
TOTAL SALES TO ULTIMATE CUSTOMERS										
Customers	4,349	4,057	4,044	4,073	3,985	3,918	3,810	3,801	3,756	3,699
Kilowatt-Hours	58,875,043	59,104,311	56,064,521	61,255,442	59,403,284	60,736,360	60,033,086	57,504,264	58,544,695	56,595,926
Revenue	$ 3,440,983	$ 3,554,087	$ 3,640,113	$ 3,888,538	$ 3,356,993	$ 2,959,542	$ 2,689,965	$ 2,241,882	$ 2,084,990	$ 1,811,485
ENTIRE POWER SYSTEM										
TOTAL SALES TO ULTIMATE CUSTOMERS										
Customers	1,243,092	1,233,437	1,221,857	1,214,413	1,199,952	1,175,251	1,150,111	1,130,174	1,118,485	1,117,634
Kilowatt-Hours	18,903,086,635	18,178,676,889	18,247,632,179	17,739,819,576	17,689,755,709	17,780,885,344	17,107,172,544	16,846,858,540	16,177,232,245	15,798,351,707
Revenue	$1,096,783,202	$1,091,910,100	$1,163,054,124	$1,096,591,680	$ 926,548,506	$ 777,986,162	$ 707,574,124	$ 588,433,299	$ 520,043,927	$ 447,875,378
TOTAL SALES (Incl. Sales to Other Elec. Util.)										
Kilowatt-Hours	19,127,288,190	18,663,114,487	19,212,563,809	18,738,517,373	18,082,133,216	18,182,253,399	17,418,147,763	17,337,303,980	16,719,764,912	16,267,803,973
Revenue	$1,109,072,861	$1,100,484,430	$1,189,387,990	$1,139,272,315	$ 931,378,437	$ 781,348,407	$ 711,098,557	$ 595,472,726	$ 522,455,939	$ 450,228,244

* Sales of electric energy as billed to customers

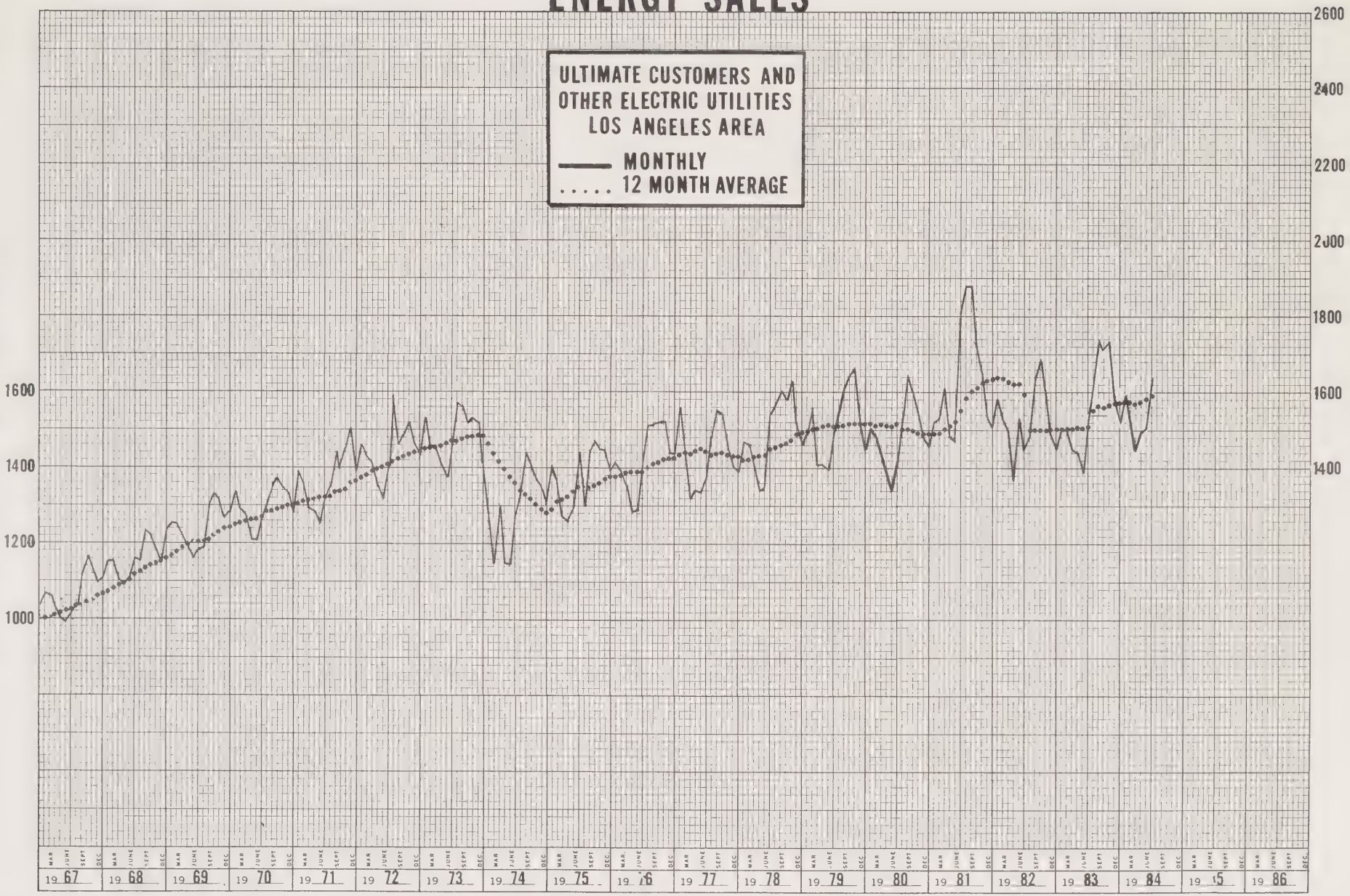
ENERGY USED AND REVENUE PER CUSTOMER - & - AVERAGE RATE PER KILOWATT-HOUR
(Per Customer Figures Based on Average Active Accounts)

CITY OF LOS ANGELES - DEPARTMENT OF WATER AND POWER - POWER SYSTEM

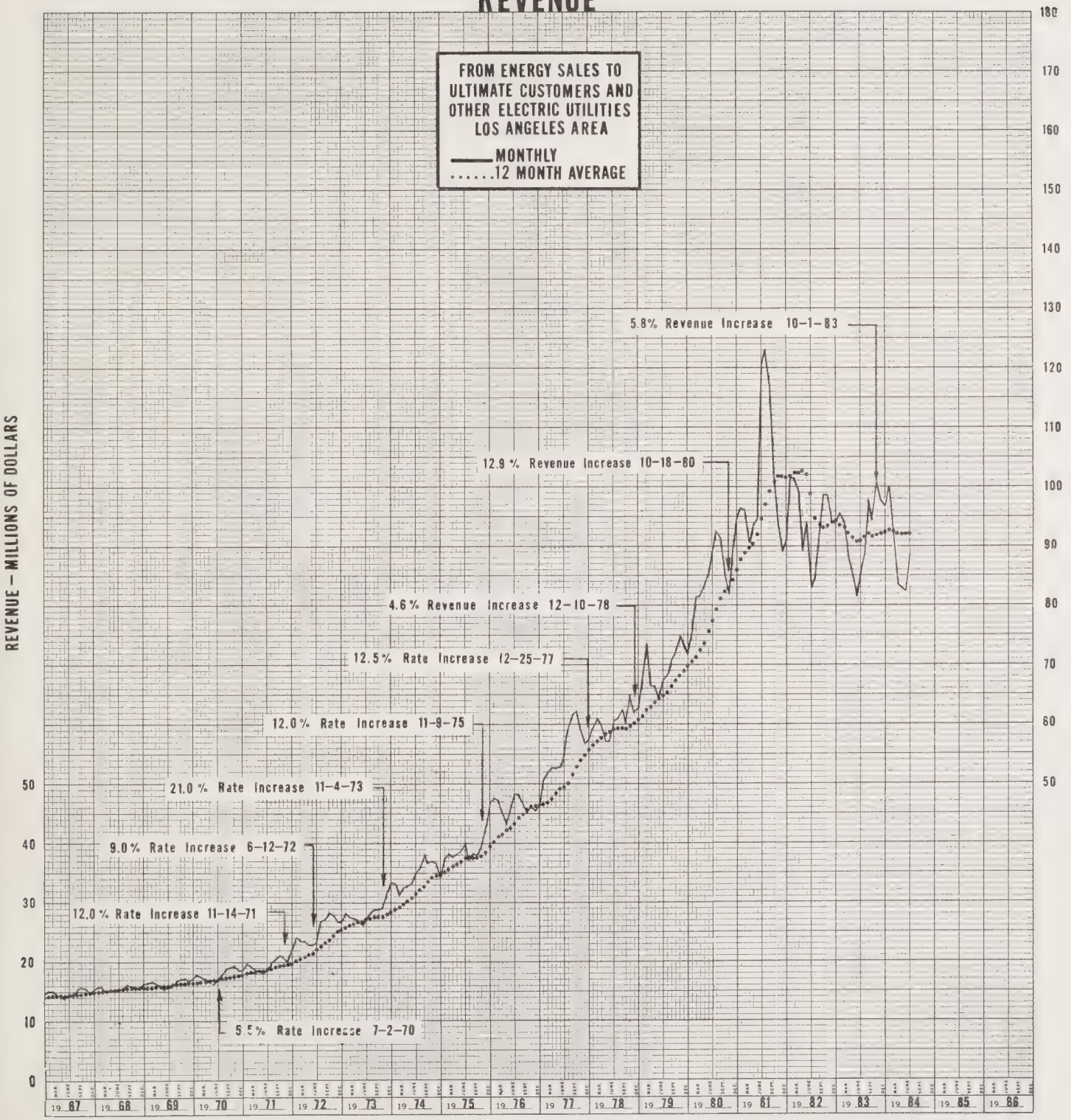
AVERAGE MONTHLY AMOUNT - FOR YEAR ENDING JUNE 30:

	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
LOS ANGELES CITY AREA										
RESIDENTIAL										
Kwh Per Customer	408.5	392.6	400.7	386.4	394.0	405.2	387.1	389.5	384.4	382.5
Revenue Per Customer	$ 24.65	$ 24.23	$ 26.15	$ 25.19	$ 23.50	$ 20.61	$ 18.65	$ 16.17	$ 14.84	$ 13.31
Average Rate Per Kwh	6.04¢	6.17¢	6.53¢	6.52¢	5.96¢	5.09¢	4.82¢	4.15¢	3.86¢	3.48¢
COMMERCIAL AND INDUSTRIAL										
Commercial (Incl. Governmental)										
Kwh Per Customer	5,046.1	4,790.2	4,792.8	4,762.4	4,784.4	5,100.7	5,207.4	5,206.6	4,931.8	4,460.3
Revenue Per Customer	$ 293.98	$ 290.28	$ 308.06	$ 292.95	$ 243.12	$ 216.28	$ 209.04	$ 175.41	$ 151.53	$ 122.01
Average Rate Per Kwh	5.83¢	6.06¢	6.43¢	6.15¢	5.08¢	4.24¢	4.01¢	3.37¢	3.07¢	2.74¢
Industrial										
Kwh Per Customer	15,449.8	15,786.0	16,756.3	15,105.4	15,311.1	16,446.5	16,997.4	16,814.8	17,339.4	18,542.2
Revenue Per Customer	$ 834.47	$ 892.98	$ 952.89	$ 874.91	704.29	605.11	584.57	477.26	450.88	398.87
Average Rate Per Kwh	5.40¢	5.66	6.05¢	5.79¢	4.60¢	3.68¢	3.44¢	2.84¢	2.60¢	2.15¢
Total Commercial and Industrial										
Kwh Per Customer	6,285.5	6,120.6	6,167.6	6,111.9	6,194.0	6,621.1	6,757.6	6,722.1	6,451.3	6,012.7
Revenue Per Customer	$ 358.4	$ 363.20	$ 388.92	$ 368.88	$ 304.87	$ 268.39	$ 258.50	$ 214.82	$ 188.19	$ 152.53
Average Rate Per Kwh	5.70¢	5.93¢	6.31¢	6.04¢	4.92¢	4.05¢	3.83¢	3.20¢	2.92¢	2.54¢
ENTIRE POWER SYSTEM										
TOTAL SALES TO ULTIMATE CUSTOMERS										
Kwh Per Customer	1,267.2	1,228.2	1,244.5	1,217.3	1,228.5	1,260.8	1,239.5	1,242.2	1,205.3	1,178.0
Revenue Per Customer	$ 73.53	$ 73.77	$ 79.32	$ 75.25	$ 64.35	$ 55.16	$ 51.27	$ 43.39	$ 38.75	$ 33.39
Average Rate Per Customer	5.80¢	6.01¢	6.37¢	6.18¢	5.24¢	4.38¢	4.14¢	3.49¢	3.21¢	2.83¢

ENERGY SALES



REVENUE


FROM ENERGY SALES TO ULTIMATE CUSTOMERS AND OTHER ELECTRIC UTILITIES LOS ANGELES AREA
MONTHLY
12 MONTH AVERAGE
REVENUE – MILLIONS OF DOLLARS
5.8% Revenue Increase 10–1–83
12.9 % Revenue Increase 10–18–80
4.6 % Revenue Increase 12–10–78
12.5 % Rate Increase 12–25–77
12.0 % Rate Increase 11–9–75
21.0 % Rate Increase 11–4–73
9.0 % Rate Increase 6–12–72
12.0 % Rate Increase 11–14–71
5.5 % Rate Increase 7–2–70
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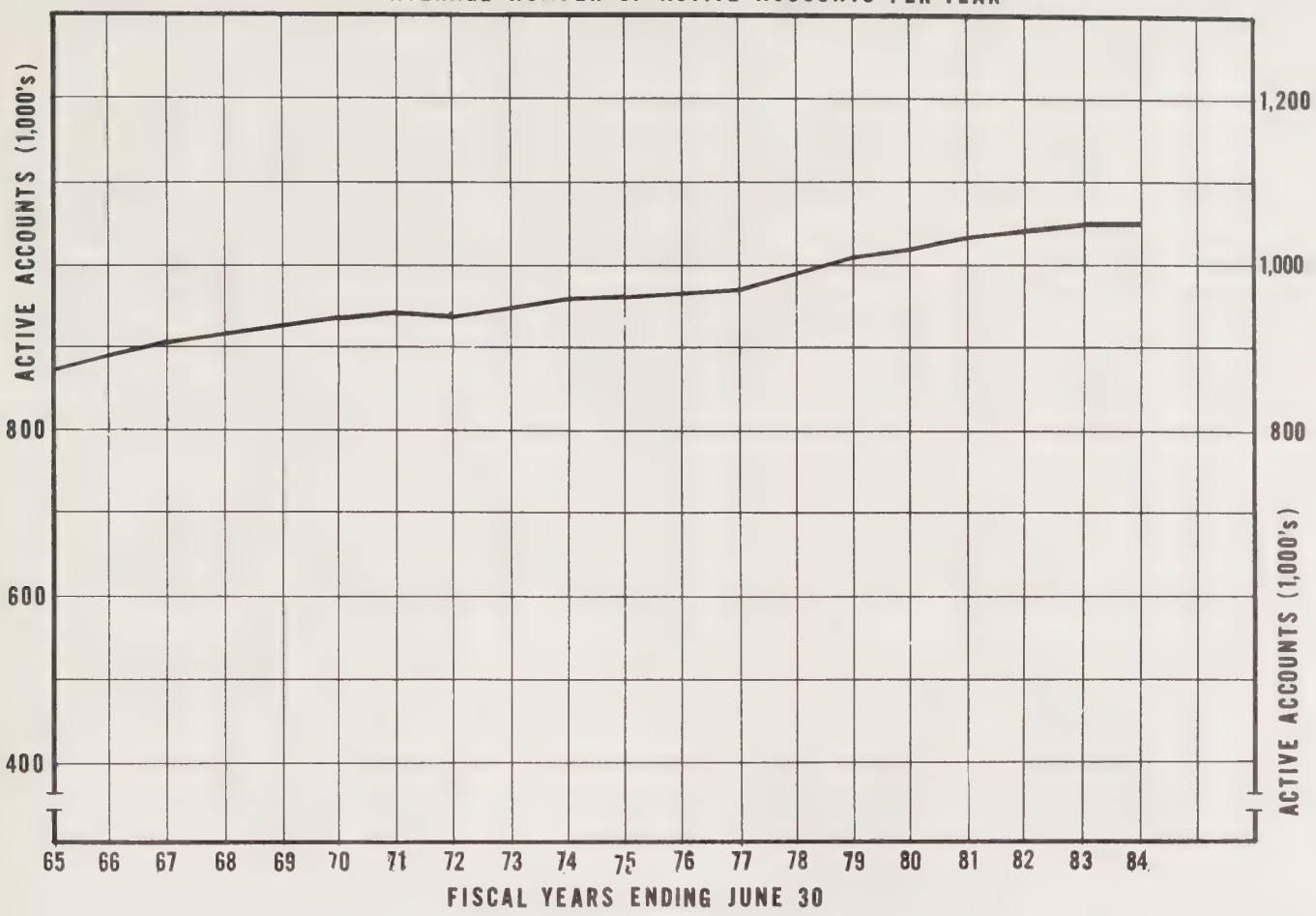
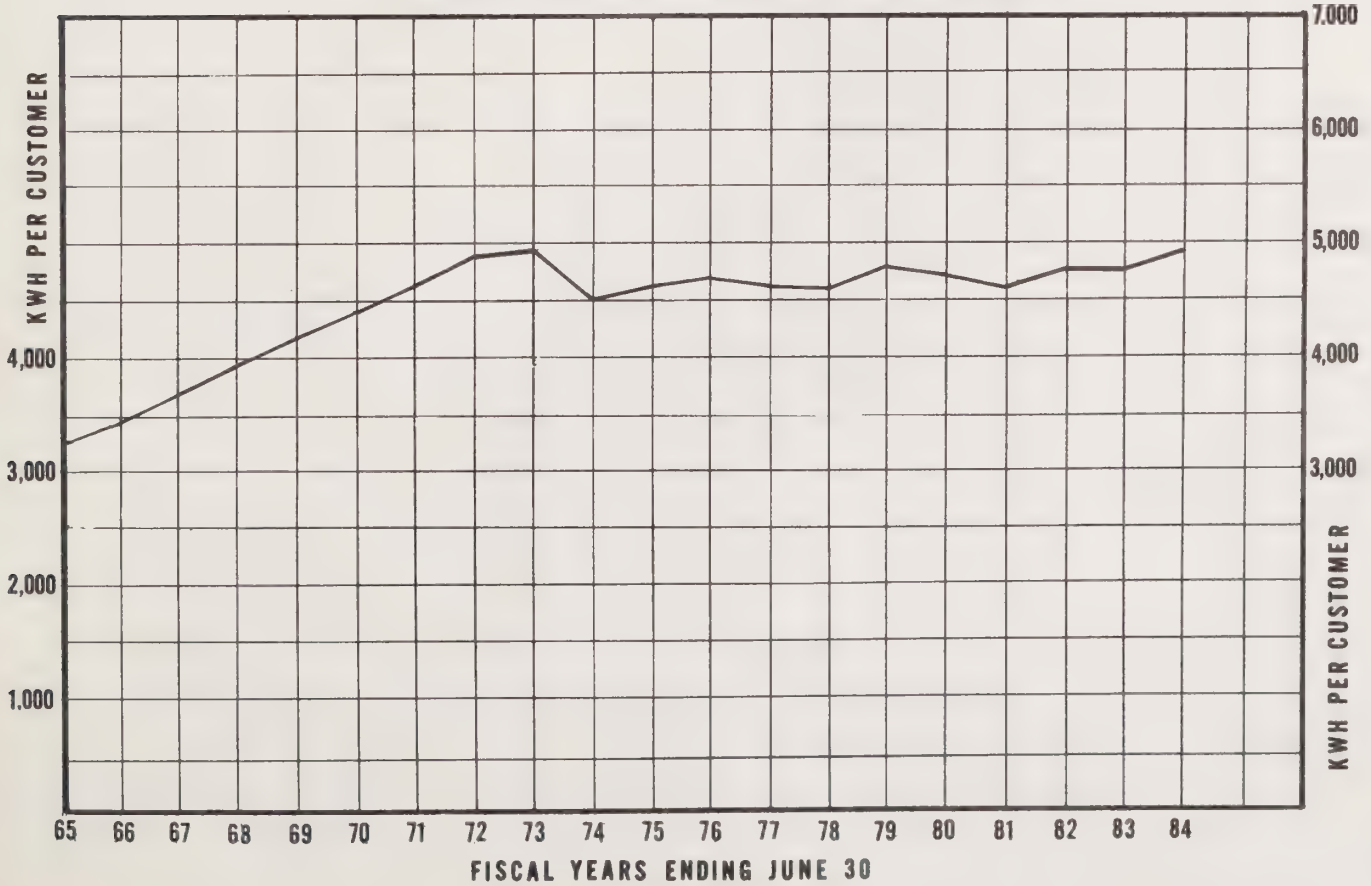
RESIDENTIAL SERVICE-LOS ANGELES AREA

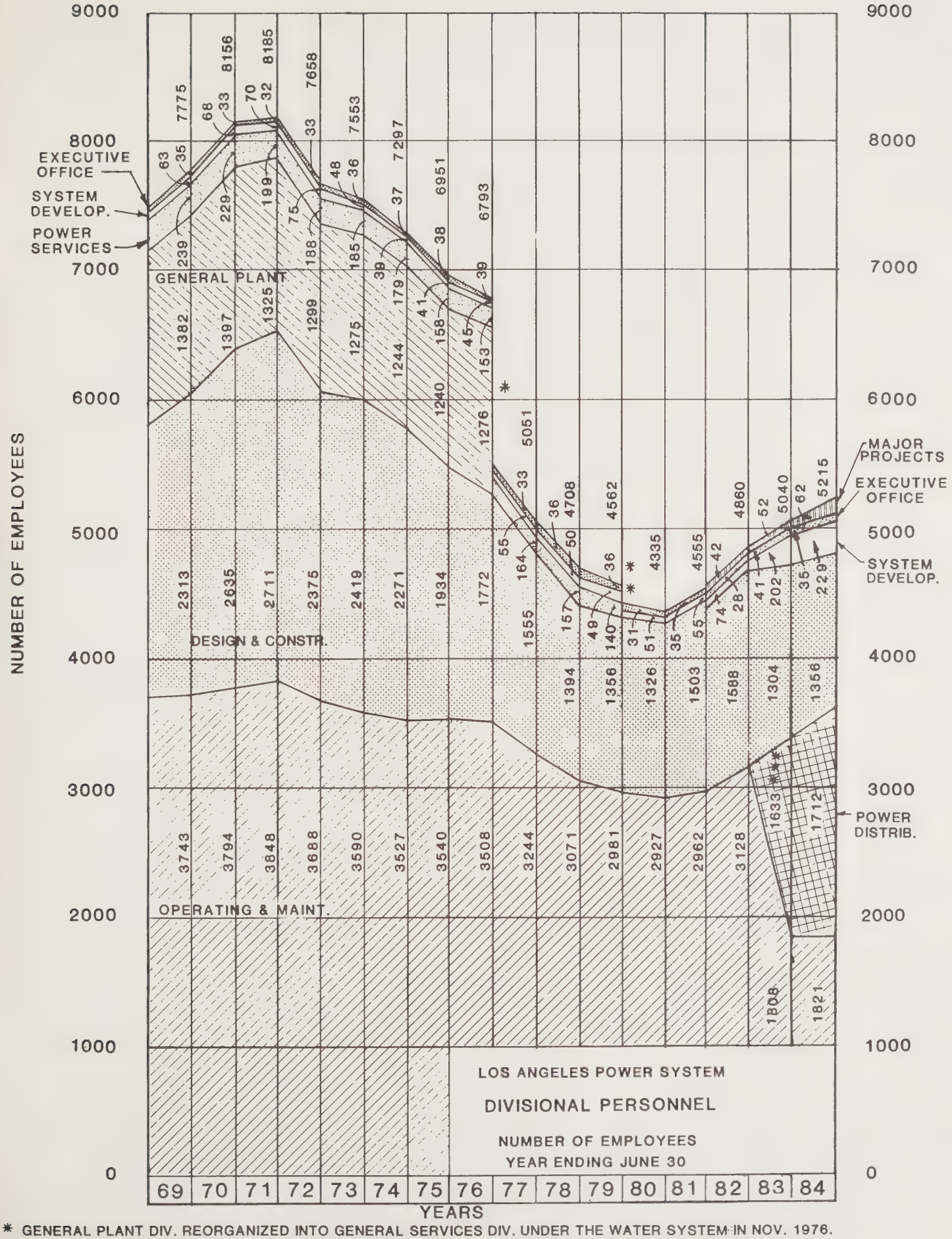
AVERAGE NUMBER OF ACTIVE ACCOUNTS PER YEAR



RESIDENTIAL SERVICE-LOS ANGELES AREA

AVERAGE ENERGY USED PER CUSTOMER PER YEAR





* GENERAL PLANT DIV. REORGANIZED INTO GENERAL SERVICES DIV. UNDER THE WATER SYSTEM IN NOV. 1976.
** POWER SERVICES REORGANIZED INTO CONSERVATION AND CUSTOMER SERVICES .
*** POWER DISTRIBUTION DIVISION ESTABLISHED IN OCT. 1982.

DEPARTMENT OF WATER AND POWER

POWER SYSTEM

COMPARATIVE STATISTICS FOR TEN YEARS ENDED JUNE 30, 1984

	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Operating revenues	$1,177,469,022	$1,106,407,836	$1,193,913,018	$1,143,068,561	$ 936,235,118	$ 783,874,700	$ 712,671,085	$ 597,042,782	$ 524,130,033	$ 451,783,053
Operating expenses (less depreciation)	$ 837,552,764	$ 827,440,044	$ 886,289,814	$ 860,682,689	$ 734,661,298	$ 542,197,172	$ 534,933,921	$ 424,438,778	$ 359,360,384	$ 292,008,971
Percent of operating revenues	71.1	74.8	74.2	75.3	78.5	69.2	75.1	71.1	68.6	64.6
Depreciation	98,521,416	91,673,061	86,663,193	80,618,516	73,387,868	67,048,728	62,393,367	57,945,781	52,976,813	47,937,275
Percent of operating revenues	8.4	8.3	7.3	7.1	7.8	8.6	8.8	9.7	10.1	10.6
Long-term debt expense	97,972,541	98,558,492	100,130,942	94,606,361	76,234,354	69,619,634	65,006,619	56,239,114	48,719,498	43,794,756
Percent of operating revenues	8.3	8.9	8.4	8.3	8.1	8.9	9.1	9.4	9.3	9.7
Other income and expenses	22,032,115	20,332,277	19,469,067	16,070,593	8,879,761	7,967,348	4,357,133	4,377,653	$ 3,987,258	$ 5,503,601
Net income	$ 165,454,416	$ 109,068,516	$ 140,298,136	$ 123,231,588	$ 60,831,359	$ 112,976,514	$ 54,694,311	$ 62,796,762	$ 67,060,596	$ 73,545,652
Taxes (included in operating expenses)	10,965,017	9,257,719	6,880,597	6,961,116	5,255,067	6,617,365	7,168,233	6,952,840	5,925,067	3,404,775
Percent of operating revenue	.9	.8	.6	.6	.6	.8	1.0	1.2	1.1	.8
Maintenance (included in operating expenses)	110,597,763	102,409,853	$ 94,798,561	92,288,764	76,104,122	60,874,159	58,334,670	50,918,682	43,291,523	34,918,177
Percent of operating revenues	9.4	9.3	7.9	8.1	8.1	7.8	8.2	8.5	8.3	7.7
Plant in service, excluding land	3,423,294,389	3,273,498,591	3,149,757,488	3,035,306,047	2,839,508,378	2,563,988,236	2,412,904,890	2,247,516,137	2,105,754,614	1,952,305,798
Accumulative provision for depreciation	1,012,122,874	925,400,293	845,050,259	770,880,393	709,951,754	644,963,098	586,022,632	530,433,088	482,253,577	442,819,486
Percent of plant in service	29.6	28.3	26.8	25.4	25.0	25.2	24.3	23.6	22.9	22.7
Net plant in service	$2,411,171,515	$2,348,098,298	$2,304,707,229	$2,264,425,654	$2,129,556,624	$1,919,025,138	$1,826,882,258	$1,717,083,049	$1,623,501,037	$1,509,486,312
Land	82,780,544	78,658,411	73,554,669	68,796,077	65,214,620	55,623,463	52,940,095	50,769,302	49,845,190	49,169,913
Construction work in progress	97,759,185	118,860,051	120,569,174	84,740,359	167,116,264	282,975,430	268,340,080	222,532,442	250,666,838	275,467,396
Net utility plant	$2,591,711,244	$2,545,616,760	$2,498,831,072	$2,417,962,090	$2,361,887,508	$2,257,624,031	$2,148,162,433	$1,990,384,793	$1,924,013,065	$1,834,123,621
Long-term debt	1,465,372,195	1,512,029,249	1,556,985,422	1,599,088,637	1,599,055,686	1,484,080,209	1,417,816,034	1,298,697,933	1,226,811,583	1,158,031,273
Percent of net utility plant	56.5	59.4	62.3	66.1	67.7	65.7	66.0	65.2	63.8	63.1
Contributions in aid of construction	64,135,734	59,559,664	54,751,310	47,187,550	40,878,426	38,999,647	34,576,078	32,729,787	31,106,672	29,615,108
Retained income	1,277,393,040	1,167,258,624	1,117,886,108	1,034,740,972	967,421,384	945,784,025	868,441,511	843,599,200	807,009,438	762,587,842
Payments to reserve fund of the City	55,320,000	59,696,000	57,153,000	46,812,000	39,194,000	35,634,000	29,852,000	26,207,000	22,639,000	19,029,000

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